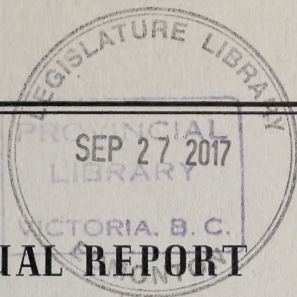


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FIRST ANNUAL REPORT
OF THE
Department of Mines and Minerals
OF THE
PROVINCE OF ALBERTA
FOR THE
Fiscal Year Ended March 31st
1950

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY



EDMONTON
PRINTED BY A. SHNITKA, KING'S PRINTER
1951

FIRST ANNUAL REPORT
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To the Honourable J. J. Bowlen,
Lieutenant Governor of the Province of Alberta.

SIR:

I have the honour to submit the Report of the Department of
Mines and Minerals for the fiscal year ended March 31st, 1950.

I have the honour, to be, Sir,

Your obedient servant,

N. E. TANNER,
Minister of Mines and Minerals.

Edmonton, February 12th, 1951.

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CHIEF OFFICERS
DEPARTMENT OF MINES AND MINERALS

March 31st, 1950

Hon. N. E. Tanner	<i>Minister</i>
I. N. McKinnon	<i>Deputy Minister</i>
H. H. Somerville	<i>Assistant Deputy Minister</i>
N. A. Macleod	<i>Solicitor</i>
C. W. Jackman	<i>Statistician and Personnel Officer</i>
W. E. Shillabeer	<i>Administrative Accountant</i>

MINERAL RIGHTS DIVISION

H. H. Somerville	<i>Director</i>
E. P. Shaver	<i>Assistant Director</i>
H. Ingrey	<i>Inspector of Mining Locations</i>
D. F. Morrison	<i>Supervisor of Leases and Mining Recorder—Edmonton District</i>
A. Z. Choquette	<i>Mining Recorder—Calgary District</i>

MINES DIVISION

J. Crawford *Director*
J. A. Dutton *Assistant to Director*

MINERAL TAXATION DIVISION

E. F. Gilker *Chief Assessor*
R. T. Newsome *Assessor—Northern District*
V. L. Scott *Assessor—Southern District*

TECHNICAL DIVISION

H. B. Grove *Superintendent*

FIRST ANNUAL REPORT

of the

Department of Mines and Minerals

•

HONOURABLE N. E. TANNER,
Minister of Mines and Minerals,
Edmonton.

Sir:

I have the honour to submit this, the first Annual Report of the Department of Mines and Minerals for the fiscal year ending March 31st, 1950.

The Department started functioning as a separate entity on April 1st, 1949, following the division of the Department of Land and Mines. Organization of the new Department was facilitated by the transfer of certain key staff, together with their records and files, and the entire Mines Branch and Mining Lands Branch. The Mines Branch is now the Mines Division and submits its own report. The Mining Lands Branch has become the Mineral Rights Division of the new Department. Other new divisions organized were the Technical, Mineral Taxation and Accounts. Provision has been made for the establishment of a Geological Division but its organization has been delayed by the lack of adequate office space. The work is being handled temporarily in the offices of The Petroleum and Natural Gas Conservation Board. A Chief Geologist has been appointed who is also Chief Geologist for the Board.

The creation of the Department some two years after the discovery of the Leduc Oil Field recognized the growing importance of our mineral resources not only to the Province, but to Canada as well.

The past year has been one of continued expansion in all phases of the oil and gas industry. Work has been started on the erection of additional refineries in the Province and a new gas processing plant at Leduc is in the course of completion. Production of oil reached a point in February of this year where there was an excess over prairie demand and we now await completion of the Interprovincial pipe line to Superior and the construction of additional refining capacity on the prairies to increase crude oil outlets.

The coal industry is trying hard to maintain its position in the face of stiff competition from natural gas, propane and fuel oil. Production for the fiscal year amounted to 8,538,556 tons, slightly lower than the 1948 figure.

The preliminary steps taken by the administration of the Department of Lands and Mines to facilitate the creation of a new department and the excellent condition of the records transferred, have played an important part in enabling us to function during this year. The Province was indeed fortunate in having a man with the experience of Mr. John Harvie, Deputy Minister of Lands and Mines, to lay the ground work at the time of the transfer of the resources and to establish an excellent system of records and administration which enabled the Department of Lands and Mines to carry on successfully.

It is appropriate at this time that reference be made to the splendid manner in which the staff has performed its duties in handling an ever increasing volume of work. The burden has fallen on the more experienced members of the staff who have had to train new-comers in addition to carrying on their normal duties.

Legislation

Some of the statutes in accordance with which the Department of Mines and Minerals had to operate were new. The Department of Mines and Minerals Act, creating the Department, came into force on April 1st, 1949. The Mines and Minerals Act and The Registration of Assignments of Crown Lands Act replaced parts of The Provincial Lands Act which had been repealed.

The Mines and Minerals Act provides for the disposition of mineral rights, the property of the Crown. It is divided into seven parts:

- I Administration of Minerals
- II Quartz Mining
- III Placer Mining
- IV Coal Mining
- V Mining in Road Allowances
- VI Petroleum and Natural Gas
- VII Geophysical and Geological Exploration

Part I contains provisions of a general nature dealing with the administration of minerals. Parts II to VI incorporate the regulations that had been made under the old The Provincial Lands Act dealing with the disposition of mineral rights of the various kinds dealt with in these Parts. Part VII provides for the licensing of those carrying on geophysical and geological exploration and authorizes the making of regulations covering such exploration.

The Registration of Assignments of Crown Lands Act also came into force on April 1st, 1949. It replaced those sections of the old The Provincial Lands Act which provided for an increment tax in case of the assignment or sub-lease of lands held from the Crown. It is administered by the Department of Mines and Minerals, the Department of Lands and Forests or the Department of Municipal Affairs depending upon which Depart-

ment would have jurisdiction over the rights of the Crown involved in any particular case.

Other new legislation coming into effect in the Spring of 1949 included The Prohibition of Dealing in Crown Lands Act, which prohibits government employees from dealing in Crown lands or in the shares of a company dealing in Crown lands unless the company's shares are regularly quoted and dealt with on a recognized stock exchange. There were also minor amendments in other Acts administered by the new Department.

In July, 1949, between the 4th and 7th of that month, the Legislative Assembly held a session at which legislation was passed to protect the interests of the people of Alberta in the natural gas produced in the Province. Two of the Acts passed at that Session were The Gas Resources Preservation Act and an Act to amend The Oil and Gas Resources Conservation Act. The Gas Resources Preservation Act provided that any person who produces, purchases or acquires gas within the Province to be removed for use or consumption elsewhere, first shall apply to The Petroleum and Natural Gas Conservation Board for permission to do so. After inquiring into the application, the Board, with the approval of the Lieutenant Governor in Council, may grant, refuse or otherwise dispose of the application for permit.

The amendments to The Oil and Gas Resources Conservation Act made by the July, 1949 Session of the Legislative Assembly gave The Petroleum and Natural Gas Conservation Board new duties and transferred to it some of the powers previously exercised by other authorities under The Natural Gas Utilities Act and The Pipe Line Regulation Act and The Public Utilities Act. The Board was given powers to designate fields and pools, to regulate production by restriction, proration or prohibition, to require repressuring, recycling or pressure maintenance, to require underground storage of excess gas, and to set production allowables. An amendment also requires a Board permit before natural gas can be used except for gas lift, repressuring, recycling, pressure maintenance, or light or as fuel. The Board also was authorized to require measures to be taken insuring the orderly purchase, sale and transportation of gas. The amending Act also provided for hearings by the Board and gave it the necessary procedural powers. The orders of the Board must have the approval of the Lieutenant Governor in Council.

Toward the end of the fiscal year the Legislative Assembly of Alberta at its 1950 Session passed a number of Acts which concerned the Department of Mines and Minerals, but none of which came into operation during the 1949-50 fiscal year. These new Acts include The Quarries Regulation Act and The Oil and Gas Resources Conservation Act, 1950. They also include amendments of a routine rather than a substantive nature to The Urban Mining Operations Act, The Gas Resources Preservation Act, The Mineral Taxation Act, 1947, The Mines and Minerals Act and The Registration of Assignments of Crown Lands Act.

The Quarries Regulation Act authorized the making of regulations governing the operation of quarries in the Province and placed the administration of these regulations and the inspection of the quarries in the hands of the Mines Division of the Department of Mines and Minerals. There was previously no legislation covering these matters.

The Oil and Gas Resources Conservation Act, 1950, repealed the former The Oil and Gas Resources Conservation Act and The Oil and Gas Wells Act. The provisions of these former Acts were consolidated into the new Act, together with some of the provisions of the regulations made pursuant to the former The Oil and Gas Wells Act.

Regulations

During the year new regulations were made pursuant to The Mines and Minerals Act covering many of the matters to be dealt with under that Act. These regulations include Regulations Governing the Reservation of Petroleum and Natural Gas Rights, the Property of the Crown, for Geological or Geophysical Examination or for Drilling of Wells for Geological Information, Regulations Governing the Issue of Permits to Remove Sand, Stone and Gravel from the Beds of Rivers and Lakes, Regulations Governing the Issue of Leases to Remove Sand and Gravel from the Beds of Rivers, Regulations regarding second renewals of coal mining leases, and a Schedule of Fees.

In addition, many of the regulations administered by the Department were amended from time to time as the occasion demanded.

Revenue

During the year under review, mineral production, development and exploration passed previous records. This trend is reflected in the records of the Department which show a net revenue on income account of \$34,988,154.06. Expenditures on income account totalled \$373,927.12 leaving a surplus of \$34,614,226.94. The largest single item under net revenue was the sum of \$23,180,998.77 obtained as cash bonuses in the disposal of Crown Reserves. Choice parcels in the Redwater field accounted for the major portion of this revenue.

Coal

Alberta has maintained her position as Canada's principal coal producer, but the industry is faced with loss of markets to fuel oil and natural gas. The principal purchasers of coal, Canada's two great transcontinental railway systems, are converting to diesel and oil burning locomotives which will mean a considerable reduction in their coal requirements. If no alternate markets are provided and consumption continues to decline, many mines will be forced to discontinue operations. This will involve the partial dissolution of an industry which in the year under review has produced coal with a pit-head valuation of \$43,886,552.00.

The industry has, in the past few years, carried out a mechanization programme aimed at increased efficiency. The success of this programme is illustrated by the fact that an all time record for production was made in November, 1949, although 232 fewer men were employed than in November of the previous year.

The need for a long term fuel policy in Canada is obvious. The Coal industry was called upon during the last war to increase its production by 50 % when fuel shortages in both Canada and the United States became critical. If the country had to face another emergency, which present world events indicate is at least a possibility, we would be faced with a similar situation. Once mines are abandoned or have their production greatly curtailed, it requires a considerable length of time before full scale operations can be resumed even if a sufficient number of experienced miners were available. In practice where mines are shut down or operations largely reduced, the miners drift elsewhere and many of them turn to other occupations.

It is a Federal responsibility to determine at this time whether or not it is in the national interest that output of the coal in this Province should be maintained at an efficient level of production as part of an overall plan to ensure this country adequate fuel supplies at all times.

Petroleum

Following the major oil discoveries of 1947 and 1948 an unprecedented programme of exploration and development was undertaken. During the fiscal year, 3,358,704 feet of hole were drilled compared with 1,973,293 feet during the previous year. Exploratory drilling totalled 994,708 feet. There were 31 wildcat completions during the year and 196 abandonments. Development drilling produced 595 completions and 46 abandonments. Most of this activity was concentrated in the Leduc and Redwater fields but a substantial proportion of the successful completions was in pools discovered in 1949.

The first oil discovery of consequence during the fiscal year was at Golden Spike where 550 feet of oil bearing porosity were found. Subsequent drilling has indicated that the area of this field is smaller than had been expected. The discovery well showed an open flow potential of 500 barrels per hour.

An isolated discovery of light crude oil was made in a formation of Devonian age in the Normandville area of the Peace River district. Although step out wells in the vicinity have all been failures, indicating that the thin oil zone is of very limited extent, the initial discovery gave great impetus to oil exploration in northern sections of the Province. Other noteworthy discoveries were made at Campbell, Barhead, Whitemud, Stettler, Excelsior and Spring Coulee. Earlier in 1949 a discovery of light crude in the Viking Sand was made at Joseph Lake. This marked the first time that crude oil was recovered in commercial quantities from this formation which is one of the Province's principal natural gas producers.

Several extensions to previously discovered fields were made during the year. One of the most significant was the Simmons discovery two miles south of the previously known limits of the Redwater field.

A step out well to the condensate discovery near Pincher Creek gave the largest flow yet recorded in the Province. It produced wet gas at the rate of 83,000,000 cubic feet daily. Indicated recovery of high gravity crude was 3,000 barrels per day.

A third well drilled down flank from the axis between the wet gas successes found water below the gas horizon. This indicates that no crude oil exists in the field which promises to be one of the major gas reservoirs of the Province.

At Leduc, development of the corridor between the Woodbend discovery well and the main Leduc field was undertaken by independent companies drilling on Crown reserve. Southeast of the main Leduc field a considerable extension of the D2 producing area or an entirely new pool was indicated by a successful completion two miles from the main field.

Early in 1949 the point was reached at which the production potential of our fields was in excess of the economic market demand. To meet this situation, a system of voluntary prorating was initiated by the principal purchasers and producers. Work was commenced on a project to extend the market for Alberta light crude involving the construction of a pipe line from Edmonton to the lakehead at Superior, Wisconsin, from where oil will be carried by tanker to refineries in Ontario. Refineries at Moose Jaw, Regina, Winnipeg and other prairie points will be served enroute.

Restriction of production until additional crude oil markets are obtained has been no deterrent to companies engaged in oil exploration. At the end of the fiscal year, 93 geophysical crews were operating in this Province compared with a maximum of 65 during the previous year. The greatest concentration of exploration activity was in the northern half of Alberta. Due to the difficulty of operating in muskeg country during summer, work in some sections of the north is confined to the winter months.

A number of promising gas strikes have been made by exploratory wells, adding considerably to the Province's probable reserves. These gas strikes have been mainly incidental to the search for oil. The Petroleum and Natural Gas Conservation Board is hearing applications for permission to export gas from this Province to markets in both Canada and the United States.

Bituminous Sands

An area of 10,000 square miles in northern Alberta is underlain by bituminous sands which contain 15% to 18% of liquid bitumen of asphaltic origin. Attention has been centred on the exposed section along the Athabasca River near McMurray.

During the past two years an experimental separation plant has been operated for brief periods at Bitumont. In 1949 operation of the plant was started late in May and continued until the end of September. Results of the season's operations indicated that the present equipment constitutes a distinct advance over any previously used. The separation of sand from oil was much more complete than that obtained in previous experiments. Further study is necessary to determine the cost of oil production by the method used.

Common Salt

Two plants for the recovery of common salt were in operation. During the past fiscal year, 27,380 tons were produced, a decrease from the previous year's figures of 34,562 tons.

Limestone and Shale

Limestone for lime and cement is quarried in the front ranges of the Rocky Mountains. Shale is obtained from along the Bow River for the manufacture of cement and rock wool insulation. In the period under review 334,111 tons of limestone and 70,835 tons of shale were quarried.

Bentonite

Deposits of bentonite suitable for use as an oil well drillers' mud are found in various parts of the Province. Deposits near Drumheller were worked for this purpose.

Detailed reports of the Mineral Rights Division, Mineral Taxation Division, Technical Division and Accounts Division follow.

All of which is respectfully submitted,

I. N. McKINNON,
Deputy Minister.

January 2nd, 1951.

DEPARTMENT OF MINES AND MINERALS

ALBERTA CRUDE OIL AND NATURAL GASOLINE PRODUCTION BY CALENDAR YEARS
QUANTITIES IN BARRELS OF THIRTY-FIVE IMPERIAL GALLONS

YEAR	TURNEY VALLEY	LEDUC	REDWATER	GOLDEN SPIKE	CONRAD	TABER	PRINCESS	WAINWRIGHT	VERMILION	LLOYDMINSTER	OTHER FIELDS	ALBERTA TOTAL	VALUATION
1914-24	100,223	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100,223	\$ 411,676
1925	180,885	.....	.....	.....	.....	.....	.....	5,981	.....	.....	.....	180,885	717,271
1926	218,617	.....	.....	.....	.....	.....	.....	2,826	.....	.....	.....	218,617	914,707
1927	329,257	.....	.....	.....	.....	.....	.....	7,952	.....	.....	529	332,312	1,529,477
1928	481,358	.....	.....	.....	.....	.....	.....	12,382	.....	.....	222	489,532	1,727,824
1929	981,592	.....	.....	.....	.....	.....	.....	9,789	.....	.....	5,599	999,528	3,424,021
1930	1,866,999	.....	.....	.....	.....	.....	.....	7,112	.....	.....	59,321	1,486,959	4,557,473
1931	1,372,246	.....	.....	.....	.....	.....	.....	7,003	.....	.....	75,428	1,454,316	3,977,788
1932	976,274	.....	.....	.....	.....	.....	.....	5,276	.....	.....	34,877	918,154	2,606,907
1933	976,451	.....	.....	.....	.....	.....	.....	5,276	.....	.....	31,957	1,012,784	2,694,310
1934	1,232,771	.....	.....	.....	.....	.....	.....	11,779	.....	.....	21,499	1,266,049	3,031,446
1935	1,227,035	.....	.....	.....	.....	.....	.....	14,638	.....	.....	22,295	1,263,968	2,856,039
1936	1,857,319	.....	.....	.....	.....	.....	.....	15,057	.....	.....	18,952	1,820,428	2,918,750
1937	2,767,738	.....	.....	.....	.....	.....	.....	18,459	.....	.....	16,087	2,796,874	4,913,960
1938	6,691,138	.....	.....	.....	.....	600	.....	12,985	.....	.....	23,880	6,748,101	8,639,488
1939	7,556,281	.....	.....	.....	.....	15,098	.....	12,824	.....	.....	20,802	7,593,492	9,289,580
1940	8,454,497	.....	.....	.....	.....	8,720	.....	515	.....	.....	20,715	8,495,267	10,503,249
1941	9,830,348	.....	.....	.....	.....	5,600	.....	19,587	.....	.....	18,618	9,908,643	13,809,708
1942	10,003,935	.....	.....	.....	.....	28,819	.....	10,478	.....	.....	18,618	10,136,296	15,517,266
1943	9,452,697	.....	.....	.....	.....	88,735	.....	14,310	.....	.....	20,258	9,674,548	15,724,518
1944	8,326,314	.....	.....	.....	.....	24,733	.....	18,136	.....	.....	17,422	8,368,586	14,468,081
1945	7,422,061	.....	.....	.....	.....	143,606	.....	17,154	.....	.....	17,173	8,055,440	13,169,682
1946	6,371,572	.....	.....	.....	.....	135,000	.....	16,472	.....	.....	18,155	7,138,582	14,348,069
1947	5,449,575	.....	.....	.....	.....	206,925	.....	15,114	.....	.....	7,190	6,809,284	18,078,907
1948	4,900,739	.....	.....	.....	.....	202,929	.....	18,825	.....	.....	33,234	5,033,973	35,127,751
1949	4,803,939	.....	.....	.....	.....	179,627	.....	17,181	.....	.....	143,886	5,027,825	58,999,956
			36,875	85,081	139,728	150,746	121,227	16,086	86,933	716,941		20,246,392	
TOTAL	102,003,935	14,718,582	4,830,336	85,081	903,358	1,191,644	587,605	289,881	1,177,719	1,785,565	629,152	128,354,649	\$263,957,813



Seismograph crews are systematically exploring for structural features favourable for the accumulation of oil.

Mineral Rights Administration

Report of Director of Mineral Rights, H. H. Somerville

The Department of Mines and Minerals came into being on April 1, 1949, and on the same day The Mines and Minerals Act came into force providing for the disposal of minerals owned by the Province. The mineral resources of the Province had following October 1, 1930, been administered by the Department of Lands and Mines under The Provincial Lands Act and regulations established from time to time which Act was repealed on April 1, 1949.

Exploration and development for oil continued at a rapid pace during 1949 and this is borne out by the new record of footage drilled of 3,212,616 feet or slightly more than 608 miles of hole which was practically double the 1948 total of 1,663,687 feet.

The production of petroleum also set a new record for the Province and exceeded the previous year by nine and one-quarter million barrels. While the production of coal fell short of equaling the record year of 1946 by two hundred thousand tons, the 1949 figure was more than one-half million tons above 1948.

The production and value of Alberta's chief minerals for 1949 were petroleum, 20,246,392 barrels, valued at \$58,999,936; coal, 8,616,983 tons, valued at \$44,541,538; natural gas *47,645,-861 Mcf., valued at \$2,382,293, and salt, 28,466 tons valued at \$505,640.

Mineral rights, solid, liquid and gaseous, the property of the Crown in the right of the Province, are not sold, but are disposed of by lease, reservation, permit or other arrangements for limited periods of time. Revenue is obtained from fees, rentals, bonuses, royalties, sales of leases and tax on assignments and subleases. During the fiscal year these sources provided a revenue of \$34,208,423.54 being more than the total of similar revenues received by the Province during the period from the first day of October in 1930 to the end of March in 1949.

*Includes only marketed and consumed gas.

The Province was divided into three mining districts when the Department was created but on February 1, 1950, the Peace River District was discontinued and amalgamated into the Edmonton District. This district now comprises that portion of the Province lying to the north of the north boundary of Township 42 and the balance of the Province lying to the south is contained in the Calgary District.

During the year 4,297 applications for mineral rights were filed at the offices of the Mining Recorders and at Edmonton. Numerous inquiries were made as to the availability of mineral

rights mostly for petroleum and natural gas leases and reservations by personal application and by correspondence.

Even though considerable time elapsed before the new lease forms of the Department were printed 3,141 leases were issued during the period under review and a tabulation follows showing the number and acreage of the various leases.

MINERAL RIGHTS LEASES

Type of Lease	Active at April 1st, 1949	Issued	Reinstated	Divided	Cancelled	Renewed	Active at March 31st, 1950
Petroleum and Natural Gas.....	5,490	3,007	15	65	1,125	2	7,450
Coal	503	132	....	....	38	6	591
Quarrying	74	1	....	....	5	....	70
Quartz Mining	4	....	....	....	....	....	4
Salt	1	....	....	....	....	....	1
Bituminous Sands	1	1	....	....	1	....	1
Miscellaneous	1	....	....	....	....	....	1
TOTAL	6,074	3,141	15	65	1,169	8	8,118

ACREAGE CONTAINED IN ABOVE LEASES

Type of Lease	Active at April 1st, 1949	Issued	Reinstated	Cancelled	Renewed	Active at March 31st, 1950
Petroleum and Natural Gas.....	3,087,825	2,159,329	8,081	844,833	80	4,410,322
Coal	161,641	26,336	....	3,986	1,224	182,767
Quarrying	1,587	51	....	55	....	1,583
Quartz Mining	182	....	....	....	....	182
Salt	6,721	....	....	6,157	....	564
Bituminous Sands.....	2,414	3,898	....	2,414	....	3,898
Miscellaneous	3,840	....	....	....	....	3,840
TOTAL	3,264,210	2,189,614	8,081	857,445	1,304	4,603,156

STATEMENT OF BUSINESS TRANSACTED, 1949-50

PETROLEUM AND NATURAL GAS

	Number	Acres
Leases Issued	3,007	2,159,329
Leases Cancelled and Relinquished.....	1,125	844,833
Leases Reinstated	15	8,081
Prospecting Reservations Granted	287	22,470,412
Prospecting Reservations Terminated	182	13,160,266
Fees, Rentals and Bonuses Collected.....	\$ 6,251,852.54	
Royalties Collected	3,611,118.33	
Crown Reserve Sales	23,231,448.20	
TOTAL	\$33,094,419.07	

COAL

	Number	Acres
Leases Issued	132	26,336
Leases Cancelled and Relinquished.....	38	3,986
Fees and Rentals Collected	\$191,725.77	
Royalties Collected	651,568.47	
TOTAL	\$843,294.24	

QUARRYING

	Number	Acres
Leases Issued	1	51
Leases Cancelled and Relinquished	5	55
Sand, Stone and Gravel Permits Issued.....	22	....
Fees and Rentals Collected.....	\$1,019.31	
Royalties Collected	37,604.43	
TOTAL	\$38,623.74	

MISCELLANEOUS

	Number
Bituminous Sands Permits Issued	1
Permits to Collect Bitumen Renewed	1
Quartz Mining Claims Granted	25
Quartz Mining Certificates of Work Issued.....	3
Powers of Attorney (Quartz) Filed	13
Powers of Attorney (Placer) Filed	4
Geophysical Licenses Issued	133
Assignments Registered	1,060
Fees, Rentals, Royalties and Tax on Assignments and Subleases Collected	\$232,086.49

PETROLEUM AND NATURAL GAS

Number and Area of Leases.—During the year 3,007 petroleum and natural gas leases were granted covering 2,159,329 acres and at the close of the fiscal year a total of 7,450 leases were in existence comprising an area of 4,410,322 acres.

The revenue received from fees amounted to \$38,635.00. The revenue from leases was \$2,836,455.83 and the revenue from bonuses accepted by the Mining Recorders at sales of petroleum and natural gas leases by tender amounted to \$308,285.95.

Disposal of Crown Reserves.—Petroleum and natural gas rights comprised in Crown reserves may be disposed of by order of the Lieutenant Governor in Council and during the year 177 leases and six prospecting reservations were purchased and particulars of these Crown reserves purchases are included in this report.

CROWN RESERVES PURCHASED IN
LEDUC AREA

Description	Offer Accepted from:	Purchase Price	Share of
		Cash	Oil Products
L.S. 7 of 35-50-26-4	The Bay Petroleum Corporation	\$51,150.00	15 %
L.S. 16 of 35-50-26-4	Sam Yeske	23,849.99	15 %
		\$74,999.99	

CROWN RESERVES PURCHASED IN
WOODBEND AREA

Description	Offer Accepted from:	Cash	Purchase Price
S.E. $\frac{1}{4}$ 35-51-26-4	T. L. Brook	10,001.00	
N.E. $\frac{1}{4}$ 36-51-26-4	T. L. Brook	10,001.00	
N.W. $\frac{1}{4}$ 36-51-26-4	T. L. Brook	10,001.00	
N.E. $\frac{1}{4}$ 26-51-26-4	Shell Oil Company	26,184.00	
N.W. $\frac{1}{4}$ 27-51-26-4	Anglo-Canadian Oil Company Ltd., Home Oil Company Ltd. and The Calgary & Edmonton Corporation Ltd.	51,101.00	
N.E. $\frac{1}{4}$ 28-51-26-4	Anglo-Canadian Oil Company Ltd., Home Oil Company Ltd. and The Calgary & Edmonton Corporation Ltd.	56,101.00	
N.W. $\frac{1}{4}$ 28-51-26-4	Anglo-Canadian Oil Company Ltd., Home Oil Company Ltd. and The Calgary & Edmonton Corporation Ltd.	41,101.00	
S.W. $\frac{1}{4}$ 33-51-26-4	Shell Oil Company	17,690.34	
S.W. $\frac{1}{4}$ 34-51-26-4	Anglo-Canadian Oil Company Ltd., Home Oil Company Ltd. and The Calgary & Edmonton Corporation Ltd.	20,101.00	
S.W. $\frac{1}{4}$ 35-51-26-4	Anglo-Canadian Oil Company Ltd., Home Oil Company Ltd. and The Calgary & Edmonton Corporation Ltd.	10,101.00	
		\$252,382.34	

CROWN RESERVES PURCHASED IN
REDWATER AREA

Description	Offer Accepted from:	Purchase Price	Share of
		Cash	Oil Products
N.E. $\frac{1}{4}$ 3-58-22-4	Pacific Petroleum Ltd. (N.P.L.)	91,099.00	.....
S.E. $\frac{1}{4}$ 10-58-22-4	Pacific Petroleum Ltd. (N.P.L.)	201,099.00	.....
S.W. $\frac{1}{4}$ 10-58-22-4	Pacific Petroleum Ltd. (N.P.L.)	61,099.00	.....
Sec. 16-57-21-4	Amerada Petroleum Corporation	3,223,320.00	....
N.E. $\frac{1}{4}$ 8-57-21-4	G. E. Watt	263,130.00	.....
N.E. $\frac{1}{4}$ 5-58-21-4	Texaco Exploration Company	396,000.00	.....
N.W. $\frac{1}{4}$ 5-58-21-4	Texaco Exploration Company	587,000.00	.....
S.W. $\frac{1}{4}$ 8-58-21-4	Texaco Exploration Company	476,000.00	.....
N.E. $\frac{1}{4}$ 10-58-22-4	Anglo-Canadian Oil Company Ltd.	626,000.00	.....
N.W. $\frac{1}{4}$ 10-58-22-4	Texaco Exploration Company	413,000.00	.....
N.E. $\frac{1}{4}$ 17-58-22-4	Pacific Petroleum Ltd. (N.P.L.)	97,698.00	.....
N.W. $\frac{1}{4}$ 17-58-22-4	Pacific Petroleum Ltd. (N.P.L.)	92,698.00	.....

CROWN RESERVES PURCHASED IN
REDWATER AREA (Continued)

Description		Offer Accepted from:	Purchase Price	Share of
			Cash	Oil Products
S.E. $\frac{1}{4}$	5-58-21-4	Royalite Oil Company Ltd.	\$650,121.00	.....
S.W. $\frac{1}{4}$	5-58-21-4	The British American Oil Co. Ltd.	902,800.00	.....
S.E. $\frac{1}{4}$	3-58-22-4	Ed-Bridge Petroleum Co. Ltd.	25,150.00	.....
N.E. $\frac{1}{4}$	15-58-22-4	Texaco Exploration Company	501,000.00	.....
N.W. $\frac{1}{4}$	15-58-22-4	Texaco Exploration Company	401,000.00	.....
S.E. $\frac{1}{4}$	23-57-21-4	Calvan Petroleums Limited	76,101.99	15%
S.W. $\frac{1}{4}$	23-57-21-4	Calvan Petroleums Limited	176,105.99	15%
N.W. $\frac{1}{4}$	8-58-21-4	Alberta Giant Oil Company Ltd.	33,080.00	15%
S.E. $\frac{1}{4}$	17-58-22-4	The British American Oil Co. Ltd.	100,160.00	15%
S.E. $\frac{1}{4}$	12-57-21-4	The Ohio Oil Company	420,031.00	.....
S.E. $\frac{1}{4}$	15-58-22-4	Tanner & Co. Limited	918,662.67	.....
S.W. $\frac{1}{4}$	15-58-22-4	Tanner & Co. Limited	677,267.17	.....
N.W. $\frac{1}{4}$	16-58-22-4	Canadian Gulf Oil Company	350,000.00	.....
S.W. $\frac{1}{4}$	23-58-22-4	Pacific Petroleums Ltd. (N.P.L.)	325,001.00	.....
S.E. $\frac{1}{4}$	19-58-22-4	Pacific Petroleums Ltd. (N.P.L.)	101,001.00	15%
N.E. $\frac{1}{4}$	9-58-22-4	Polaris Oil Company Limited	125,117.27	15%
N.W. $\frac{1}{4}$	22-56-21-4	Atlantic Oil Company Limited	607,109.99	.....
S.E. $\frac{1}{4}$	22-56-21-4	Pacific Petroleums Ltd. (N.P.L.)	327,109.99	.....
S.E. $\frac{1}{4}$	34-56-21-4	Selburn Oil Limited	1,009,009.99	.....
N.W. $\frac{1}{4}$	36-56-21-4	Royalite Oil Company Limited	1,414,530.00	.....
S.W. $\frac{1}{4}$	36-56-21-4	Royalite Oil Company Limited	1,519,101.00	.....
N.E. $\frac{1}{4}$	1-57-21-4	Texaco Exploration Company	801,000.00	.....
S.E. $\frac{1}{4}$	1-57-21-4	Royalite Oil Company Limited	1,108,800.00	.....
N.E. $\frac{1}{4}$	16-58-22-4	C. L. McMahon, Inc.	1,011,701.53	.....
S.E. $\frac{1}{4}$	16-58-22-4	Texaco Exploration Company	521,000.00	.....
S.W. $\frac{1}{4}$	16-58-22-4	Bishop Oil Company	347,113.47	.....
			\$20,977,218.06	

CROWN RESERVES PURCHASED IN
STETTLER AREA

Description		Offer Accepted from:	Cash Purchase Price
N.W. $\frac{1}{4}$	28-38-20-4	The California Standard Company	103,103.00
S.W. $\frac{1}{4}$	28-38-20-4	The California Standard Company	117,777.00
N.W. $\frac{1}{4}$	22-38-20-4	J. A. M. Belshaw	207,789.00
			\$428,669.00

CROWN RESERVES PURCHASED
ELSEWHERE IN ALBERTA

Description		Offer Accepted from:	Cash Purchase Price
N.E. $\frac{1}{4}$	21-32-15-4	Hanna Petroleums Limited	1,128.90
S.E. $\frac{1}{4}$	21-32-15-4	Hanna Petroleums Limited	1,136.00
S.E. $\frac{1}{4}$	27-32-15-4	Hanna Petroleums Limited	1,136.00

CROWN RESERVES PURCHASED
ELSEWHERE IN ALBERTA (Continued)

Description	Offer Accepted from:	Cash Purchase Price
S.W. $\frac{1}{4}$ 27-32-15-4	Hanna Petroleums Limited	1,136.00
N.E. $\frac{1}{4}$ 25-32-15-4	Hanna Petroleums Limited	816.00
N.W. $\frac{1}{4}$ 25-32-15-4	Hanna Petroleums Limited	1,136.00
N.E. $\frac{1}{4}$ 10-50-19-4	Imperial Oil Limited	1,840.00
N.W. $\frac{1}{4}$ 10-50-19-4	Imperial Oil Limited	1,656.00
S.E. $\frac{1}{4}$ 10-50-19-4	Imperial Oil Limited	1,840.00
S.W. $\frac{1}{4}$ 10-50-19-4	Imperial Oil Limited	1,840.00
N.E. $\frac{1}{4}$ 6-56-19-4	Imperial Oil Limited	4,000.00
N.W. $\frac{1}{4}$ 6-56-19-4	Imperial Oil Limited	3,703.00
S.E. $\frac{1}{4}$ 6-56-19-4	Imperial Oil Limited	3,680.00
S.W. $\frac{1}{4}$ 6-56-19-4	Imperial Oil Limited	2,720.00
N.W. $\frac{1}{4}$ 6-42-22-4	Texaco Exploration Company	2,408.00
S.W. $\frac{1}{4}$ 6-42-22-4	Texaco Exploration Company	1,605.90
N.W. $\frac{1}{4}$ 18-42-22-4	Texaco Exploration Company	1,304.00
S.W. $\frac{1}{4}$ 18-42-22-4	The British American Oil Co. Ltd.	3,030.30
N.E. $\frac{1}{4}$ 30-42-22-4	Texaco Exploration Company	2,416.00
N.W. $\frac{1}{4}$ 30-42-22-4	The British American Oil Co. Ltd.	4,127.65
S.E. $\frac{1}{4}$ 30-42-22-4	Texaco Exploration Company	2,416.00
S.E. $\frac{1}{4}$ 6-63-22-4	Stanolind Oil and Gas Company	1,448.64
N.E. $\frac{1}{4}$ 25-62-23-4	Stanolind Oil and Gas Company	2,409.60
N.W. $\frac{1}{4}$ 52-62-23-4	Stanolind Oil and Gas Company	1,609.60
S.E. $\frac{1}{4}$ 25-62-23-4	Stanolind Oil and Gas Company	2,409.60
S.W. $\frac{1}{4}$ 25-62-23-4	Stanolind Oil and Gas Company	1,609.60
N.W. $\frac{1}{4}$ 30-55-24-4	Imperial Oil Limited	1,656.00
S.E. $\frac{1}{4}$ 30-55-24-4	The British American Oil Co. Ltd.	1,627.75
L.S.s 9 and 16 and S. $\frac{1}{2}$ and N.E. $\frac{1}{4}$ of L.S. 10 and E. $\frac{1}{2}$ of L.S. 15 of 24-55-25-4	Imperial Oil Limited	1,495.00
S.E. $\frac{1}{4}$ 24-55-25-4	Imperial Oil Limited	1,656.00
S.W. $\frac{1}{4}$ 24-55-25-4	Imperial Oil Limited	1,840.00
N.E. $\frac{1}{4}$ 12-37-19-4	Tower Petroleums Limited	7,176.00
N.W. $\frac{1}{4}$ 12-37-19-4	Tower Petroleums Limited	4,176.00
S.E. $\frac{1}{4}$ 12-37-19-4	Tower Petroleums Limited	7,726.00
S.W. $\frac{1}{4}$ 12-37-19-4	Pacific Petroleums Ltd. (N.P.L.)	12,501.00
N.E. $\frac{1}{4}$ 32-41-22-4	Hudson's Bay Oil and Gas Co. Ltd.	4,524.00
N.W. $\frac{1}{4}$ 32-41-22-4	Hudson's Bay Oil and Gas Co. Ltd.	4,552.00
S.E. $\frac{1}{4}$ 32-41-22-4	Hudson's Bay Oil and Gas Co. Ltd.	5,220.00
S.W. $\frac{1}{4}$ 32-41-22-4	Hudson's Bay Oil and Gas Co. Ltd.	5,220.00
S.E. $\frac{1}{4}$ 18-50-27-4	Texaco Exploration Company	9,720.00
Sec. 20-57- 5-4	Anglo-Canadian Oil Company Ltd.	3,200.00

**CROWN RESERVES PURCHASED
ELSEWHERE IN ALBERTA (Continued)**

Description		Offer Accepted from:	Cash Purchase Price
Sec.	21-57- 5-4	Anglo-Canadian Oil Company Ltd.	\$ 4,480.00
N.E. $\frac{1}{4}$	6-34-25-4	Socony-Vacuum Exploration Co.	1,462.40
N.E. $\frac{1}{4}$	12-33-26-4	Socony-Vacuum Exploration Co.	822.40
S.E. $\frac{1}{4}$	24-33-26-4	Socony-Vacuum Exploration Co.	822.40
N.E. $\frac{1}{4}$	26-33-26-4	Socony-Vacuum Exploration Co.	982.40
N.E. $\frac{1}{4}$	36-33-26-4	Socony-Vacuum Exploration Co.	1,142.40
S.W. $\frac{1}{4}$	36-33-26-4	Socony-Vacuum Exploration Co.	1,302.40
N.E. $\frac{1}{4}$	2-34-26-4	Socony-Vacuum Exploration Co.	1,622.40
S.E. $\frac{1}{4}$	2-34-26-4	Socony-Vacuum Exploration Co.	1,462.40
N.E. $\frac{1}{4}$	12-34-26-4	Socony-Vacuum Exploration Co.	1,622.40
S.W. $\frac{1}{4}$	16-34-26-4	Socony-Vacuum Exploration Co.	1,142.40
N.E. $\frac{1}{4}$	28-34-26-4	Socony-Vacuum Exploration Co.	822.40
S.W. $\frac{1}{4}$	28-34-26-4	Socony-Vacuum Exploration Co.	1,142.40
N.E. $\frac{1}{4}$	24-45- 1-5	F. J. Fear	2,500.00
N.W. $\frac{1}{4}$	34-36-16-4	Rio Bravo Oil Company Limited	9,243.20
S.W. $\frac{1}{4}$	36-36-16-4	Rio Bravo Oil Company Limited	9,243.20
S.E. $\frac{1}{4}$	4-37-16-4	Rio Bravo Oil Company Limited	9,243.20
N.W. $\frac{1}{4}$	28-37-16-4	Rio Bravo Oil Company Limited	9,243.20
S.E. $\frac{1}{4}$	28-37-16-4	Rio Bravo Oil Company Limited	9,243.20
S.E. $\frac{1}{4}$	34-37-16-4	Rio Bravo Oil Company Limited	9,243.20
N.W. $\frac{1}{4}$	36-37-16-4	Rio Bravo Oil Company Limited	9,243.20
S.E. $\frac{1}{4}$	36-27-16-4	Rio Bravo Oil Company Limited	9,243.20
N.W. $\frac{1}{4}$	34-59-26-4	Barnsdall Oil Company	1,642.00
S.E. $\frac{1}{4}$	34-59-26-4	Barnsdall Oil Company	1,642.00
N.E. $\frac{1}{4}$	30-48-27-4	Stanolind Oil and Gas Company	1,680.00
N.W. $\frac{1}{4}$	30-48-27-4	Stanolind Oil and Gas Company	1,680.00
S.E. $\frac{1}{4}$	30-48-27-4	Stanolind Oil and Gas Company	1,680.00
S.W. $\frac{1}{4}$	30-48-27-4	Stanolind Oil and Gas Company	1,680.00
N.E. $\frac{1}{4}$	32-48-27-4	Stanolind Oil and Gas Company	1,680.00
N.W. $\frac{1}{4}$	32-48-27-4	Stanolind Oil and Gas Company	1,680.00
S.E. $\frac{1}{4}$	32-48-27-4	Stanolind Oil and Gas Company	1,680.00
S.W. $\frac{1}{4}$	32-48-27-4	Stanolind Oil and Gas Company	1,680.00
N.E. $\frac{1}{4}$	14-38-18-4	The California Standard Company	6,009.00
N.W. $\frac{1}{4}$	14-38-18-4	The California Standard Company	3,509.00
S.E. $\frac{1}{4}$	14-38-18-4	The California Standard Company	3,509.00
S.W. $\frac{1}{4}$	14-38-18-4	The California Standard Company	3,017.00
S.W. $\frac{1}{4}$	24-38-18-4	The California Standard Company	12,823.00
N.E. $\frac{1}{4}$	14-39-19-4	The California Standard Company	14,133.00
N.W. $\frac{1}{4}$	14-39-19-4	The California Standard Company	13,333.00

**CROWN RESERVES PURCHASED
ELSEWHERE IN ALBERTA (Continued)**

Description		Offer Accepted from:	Cash Purchase Price
S.E. $\frac{1}{4}$	14-39-19-4	The California Standard Company	\$ 7,777.00
S.W. $\frac{1}{4}$	14-39-19-4	The California Standard Company	8,277.00
N.E. $\frac{1}{4}$	2-41-22-4	The California Standard Company	11,133.00
N.W. $\frac{1}{4}$	2-41-22-4	The California Standard Company	13,333.00
S.E. $\frac{1}{4}$	2-41-22-4	The California Standard Company	11,133.00
S.W. $\frac{1}{4}$	2-41-22-4	The California Standard Company	11,133.00
N.E. $\frac{1}{4}$	6-53-25-4	The California Standard Company	25,433.00
S.W. $\frac{1}{4}$	6-53-25-4	The California Standard Company	12,777.00
N.W. $\frac{1}{4}$	8-53-25-4	The California Standard Company	26,333.00
N.E. $\frac{1}{4}$	34-59-26-4	Rio Bravo Oil Company Limited	2,523.20
S.W. $\frac{1}{4}$	34-59-26-4	Rio Bravo Oil Company Limited	2,003.20
N.W. $\frac{1}{4}$	29-32-16-4	A. G. Bailey Co. Limited	1,716.80
S.W. $\frac{1}{4}$	29-32-16-4	A. G. Bailey Co. Limited	2,057.60
S.W. $\frac{1}{4}$	16-43-16-4	Ellsworth Wood	1,626.10
S.E. $\frac{1}{4}$	34-43-20-4	The British American Oil Co. Ltd.	2,001.50
S.E. $\frac{1}{4}$	36-43-20-4	Paul A. Rothwell	2,360.00
N.E. $\frac{1}{4}$	6-44-20-4	Paul A. Rothwell	8,030.00
N.W. $\frac{1}{4}$	6-44-20-4	Paul A. Rothwell	7,780.00
N.E. $\frac{1}{4}$	20-44-20-4	Paul A. Rothwell	3,624.00
N.W. $\frac{1}{4}$	20-44-20-4	Paul A. Rothwell	3,624.00
S.E. $\frac{1}{4}$	20-44-20-4	Paul A. Rothwell	2,896.00
S.W. $\frac{1}{4}$	20-44-20-4	Paul A. Rothwell	2,896.00
N.E. $\frac{1}{4}$	30-34-23-4	M. E. Kennedy	2,464.50
S.E. $\frac{1}{4}$	30-34-23-4	M. E. Kennedy	1,749.00
N.E. $\frac{1}{4}$	4-34-24-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	1,962.00
S.W. $\frac{1}{4}$	4-34-24-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	1,962.00
N.E. $\frac{1}{4}$	20-34-24-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	1,962.00
S.W. $\frac{1}{4}$	20-34-24-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	1,962.00
S.E. $\frac{1}{4}$	18-35-24-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	2,462.80
N.E. $\frac{1}{4}$	34-34-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	2,986.28
N.E. $\frac{1}{4}$	36-34-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	2,986.28
N.E. $\frac{1}{4}$	2-35-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	6,427.60
S.W. $\frac{1}{4}$	2-35-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	3,751.39
N.E. $\frac{1}{4}$	11-35-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	8,027.60
S.W. $\frac{1}{4}$	22-35-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	6,427.60

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA (Continued)

Description	Offer Accepted from:	Cash Purchase Price
N.E. $\frac{1}{4}$ 29-35-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	\$ 3,262.80
S.W. $\frac{1}{4}$ 29-35-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	1,691.60
S.W. $\frac{1}{4}$ 34-35-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	6,427.60
S.W. $\frac{1}{4}$ 2-36-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	2,462.80
S.W. $\frac{1}{4}$ 10-36-25-4	Husky Oil & Refining, Ltd., and Phillips Petroleum Company	1,851.60
N.E. $\frac{1}{4}$ 21-59-24-4	Pacific Petroleum Ltd. (N.P.L.)	5,101.01
S.W. $\frac{1}{4}$ 21-59-24-4	Pacific Petroleum Ltd. (N.P.L.)	5,101.01
N.E. $\frac{1}{4}$ 28-59-24-4	Anglo-Canadian Oil Company Ltd.	8,051.00
S.W. $\frac{1}{4}$ 28-59-24-4	Pacific Petroleum Ltd. (N.P.L.)	5,101.01
		\$549,823.82

PETROLEUM AND NATURAL GAS RESERVATIONS PURCHASED IN PROVINCIAL RESERVES

Description	Offer Accepted from:	Cash Purchase Price
Township 65, Ranges 24, 25 and 26, and Township 66, Range 24, all West of the 4th Meridian—92,160 acres.	California Northwest Company	\$175,009.00
Township 66, Ranges 25 and 26, and Township 67, Ranges 24 and 25, all West of the 4th Meridian—92,160 acres.	California Northwest Company	150,009.00
Township 67, Range 26, and Township 68, Ranges 24, 25 and 26, all West of the 4th Meridian—92,160 acres.	Palcan Petroleum Limited	117,043.20
Townships 27 and 28, Range 14, West of the 4th Meridian; East halves of Townships 27 and 28, Range 15, West of the 4th Meridian—65,760 acres.	Alberta Monterada Petroleum Corporation	19,302.95
West halves of Townships 27 and 28, Range 15, West of the 4th Meridian; Townships 27 and 28, Range 16, West of the 4th Meridian—62,400 acres.	Alberta Monterada Petroleum Corporation	18,230.56
Townships 61 and 62, Ranges 7 and 8, West of the 5th Meridian—92,160 acres.	Amerada Petroleum Corporation	117,039.21
		\$596,633.92

Reservations.—New regulations were established on April 1, 1949, governing petroleum and natural gas reservations which generally followed the regulations previously in existence and included authority for the establishment of a Board of Arbitrators to review applications for extensions of renewal periods in cases where the examination was delayed by the nature of the terrain or inaccessibility of the area or other conditions over which the holder of the reservation had no control. Dr. R. M. Hardy was appointed Chairman of the Board of Arbitrators by order of the Lieutenant Governor in Council on September 26, 1949, and the other two members, Mr. G. H. N. Monkman and Mr. H. G. Jensen and the Secretary of the Board, Mr. N. A. Macleod were appointed by the Minister.

Two hundred and eighty-seven reservations were issued under these regulations covering an area of 22,470,413 acres and at the close of the year 446 reservations were active containing an area of 33,049,197 acres. The revenue from reservation fees amounted to \$73,690.00 and for extending reservations amounted to \$2,994,785.76.

Credit of not in excess of 50 % of the approved expenditures incurred in geophysical examinations including drilling on petroleum and natural gas reservations may apply to the rental for one year of any lease or leases acquired out of the reservation and during the fiscal year under review rentals due the Province amounting to \$1,796,456.02 were satisfied from such expenditures. Because a reservation must terminate before credit becomes available, credit of \$490,426.52 was also applied to satisfy the fees for renewals that became due before December 31, 1948.

COAL

In the fiscal year, 132 leases were issued containing 26,336 acres, being made up of new and renewal leases. There are now 591 active leases comprising 182,767 acres. The revenue received from fees was \$625.00 and from lease rentals it was \$191,100.77.

During the current fiscal year the following quantity of coal, subject to Crown royalty, was mined.

	Tons
Coal leases	4,740,418
Coal lands' and mineral sales	1,224,808
TOTAL	5,965,226

Crown royalties collected on coal mined in Alberta since April 1st, 1907 are as follows:

CROWN ROYALTIES COLLECTED ON COAL

Fiscal Year	Royalty Paid	Fiscal Year	Royalty Paid
1907-08.....	\$ 7,621.67	1920-21.....	190,545.80
1908-09.....	5,322.39	1921-22.....	185,436.88
1909-10.....	153,559.98	1922-23.....	171,723.83
1910-11.....	218,932.88	1923-24.....	210,389.53
1911-12.....	104,894.55	1924-25.....	148,979.10
1912-13.....	142,997.79	1925-26.....	188,277.94
1913-14.....	147,198.75	1926-27.....	218,150.10
1914-15.....	104,489.77	1927-28.....	231,757.96
1915-16.....	67,190.17	1928-29.....	254,616.27
1916-17.....	149,447.82	1929-30.....	248,083.71
1917-18.....	144,634.75	1930-31 (First Half) *.....	90,052.07
1918-19.....	175,687.66		
1919-20.....	181,641.80		
			\$3,741,633.17

	Provincial Lands	School Lands	
1930-31 (Last Half) *.....	\$105,126.51	\$ 5,014.29	110,140.80
1931-32.....	145,170.33	6,354.09	151,524.42
1932-33.....	143,800.01	4,971.78	148,771.79
1933-34.....	193,527.82	9,520.13	203,047.95
1934-35.....	176,122.43	12,365.39	188,487.82
1935-36.....	186,691.23	19,779.76	206,470.99
1936-37.....	175,214.33	18,596.00	193,810.33
1937-38.....	158,227.11	15,159.15	173,386.26
1938-39.....	143,070.78	9,270.23	152,341.01
1939-40.....	168,802.75	7,812.78	176,615.53
1940-41.....	200,045.68	15,841.24	215,886.92
1941-42.....	216,777.95	22,849.83	239,627.78
1942-43.....	235,613.19	24,700.43	260,313.62
1943-44.....	239,590.96	19,732.99	259,323.95
1944-45.....	251,136.50	22,094.01	273,230.51
1945-46.....	260,144.66	27,514.41	287,659.07
1946-47.....	286,486.89	30,611.98	317,098.87
1947-48.....	261,554.86	26,660.60	288,215.46
1948-49.....	600,424.43	46,115.23	646,539.66
1949-50†.....	600,493.96	51,074.51	651,568.47
TOTAL.....			\$8,885,694.38

*Date of transfer of Alberta's natural resources from federal to provincial control, and date also of the creation of the Department of Lands and Mines, Alberta, October 1st, 1930.

†Creation of Department of Mines and Minerals on April 1, 1949.

QUARRYING

One quarrying lease of 51.41 acres was issued near Gap, Alberta, for rock used in the manufacture of rock-wool insulation. Extraction of 546,609 cubic yards of sand and gravel and 414,539 tons of limestone and shale from Provincial lands was reported for the calendar year of 1949. New regulations were established on March 27, 1950, governing the issue of leases to remove sand and gravel from the beds of rivers. The royalty was increased to ten cents a cubic yard and all leases issued after that date are subject to the payment of an annual minimum royalty of \$50.00.

At the close of the fiscal year, 70 leases were active containing an area of 1,583 acres.

Permits.—New regulations were established on June 20, 1949, governing the issue of permits to remove sand, stone and gravel from the beds of rivers and lakes and the royalty was increased. Permits are now issued for a fee of \$1.00 and a royalty of ten cents a cubic yard, and expire on the 30th day of November following the date of issue. In this fiscal year, 22 permits were issued for the extraction of 68,695 cubic yards.

BITUMINOUS SANDS

Under an agreement dated November 6, 1942, Abasand Oils Limited had the right to explore for bituminous sands in an area north of McMurray and upon compliance with the agreement it also had the right to apply for a lease or leases. The company made a temporary lease selection of 2,414 acres south of the Steepbank River, but after completing the test drilling programme in the Mildred-Ruth Lakes area a new lease selection was made of 3,898.2 acres. The lease was granted on March 31, 1949.

A bituminous sands prospecting permit was issued on February 23, 1950, for 9,966 acres in township 97, ranges 10 and 11, west of the 4th meridian, in the vicinity of Bitumont. The term of the permit is one year renewable for a further period of one year. The permittee is required to conduct core-test drilling to determine the nature and extent of the bituminous sands and if this exploration is satisfactorily completed a lease may be acquired of not more than six sections.

QUARTZ

Twenty-five new claims were recorded during the fiscal year, seven of which are in the Livingstone Mountain range and eighteen are northwest of Lake Athabasca. The claim in the Drumheller district for the recovery of bentonite was continued, and extraction of 851 tons of bentonite was reported.

The four quartz leases covering 181.8 acres issued by the Department of the Interior are still active.

PLACER

Twenty applications for placer mining claims were filed but the certificates of record were not issued because the form of certificate of record was not printed before the end of the fiscal year. Recovery of 21.5 ounces of gold was reported during the year.

SODIUM CHLORIDE (Common Salt)

This fiscal year the salt plant operated by Industrial Minerals Limited at Waterways, reported extraction of 9,334 tons of salt and the Alberta Salt Company Limited plant near Lindbergh reported extraction of 18,046 tons.

A summary appears showing the salt production by fiscal years.

SALT PRODUCTION

Fiscal Years	Tons Produced
1938-39.....	5,420
1939-40.....	2,508
1940-41.....	11,720
1941-42.....	19,016
1942-43.....	20,672
1943-44.....	17,425
1944-45.....	28,315
1945-46.....	29,206
1946-47.....	31,365
1947-48.....	29,166
1948-49.....	34,562
1949-50.....	27,380

SPECIAL PERMITS

One annual permit for the collection of bitumen issuing from an old well in the Peace River district was again renewed. Collection of 731 gallons was reported during the year under review.

DRILLING STATISTICS

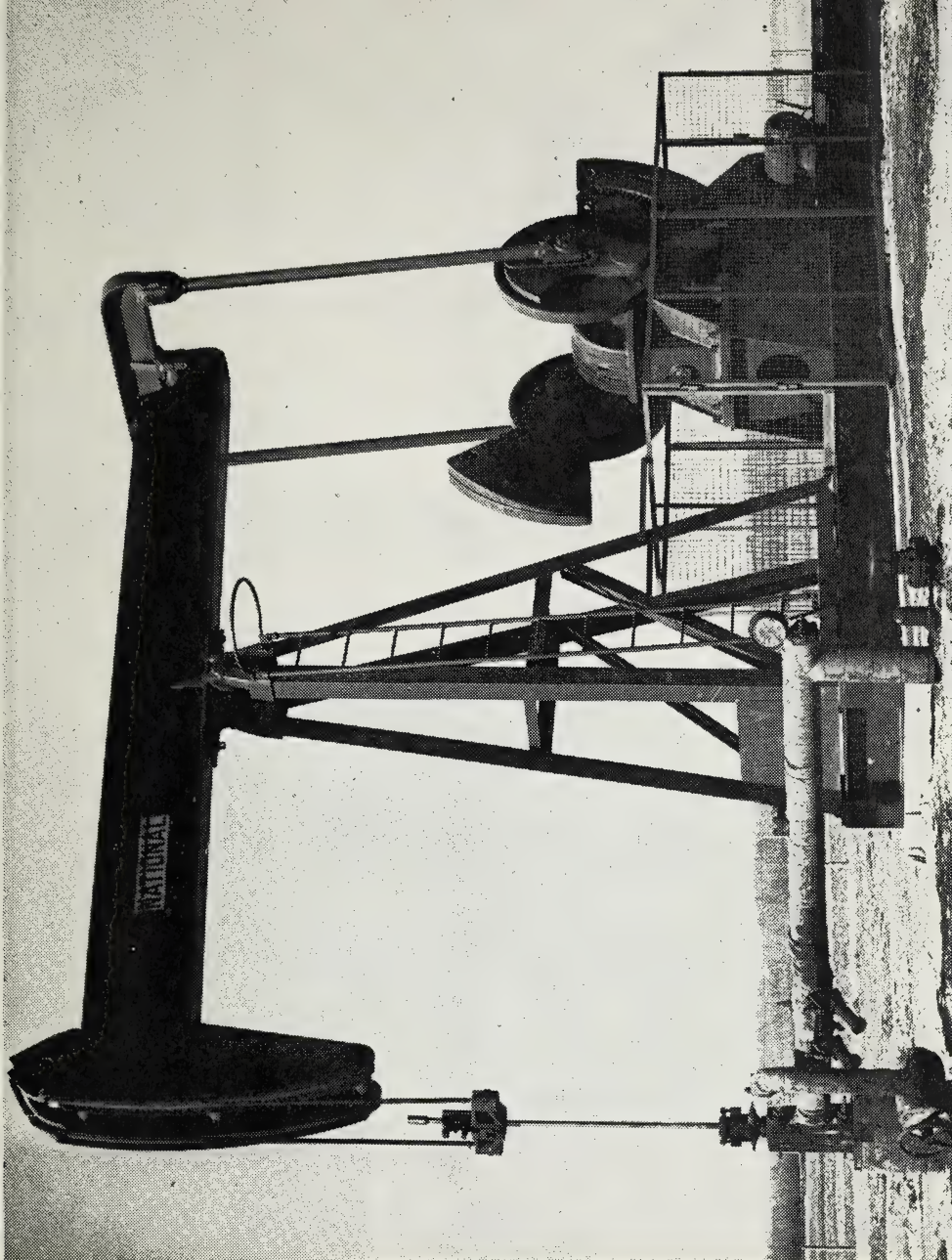
The drilling and production of petroleum and natural gas wells in the Province are administered by The Petroleum and Natural Gas Conservation Board, 514 Eleventh Avenue West, Calgary, Alberta, and particulars as to drilling activity, production and statistical data are included in weekly, monthly and annual reports issued by the Board.

STAFF

The staff of this Division was initially 19 employees increasing to 26 at the close of the fiscal year. While several of the staff had little or no previous experience in mineral resources administration the entire staff gave splendid and faithful service in the first year of this new Department.

STATEMENT OF REVENUE RECEIVED BY THE PROVINCE FROM MINING LANDS FOR THE PERIOD OCTOBER 1, 1930, TO MARCH 31, 1949, AND
FROM MINERAL RIGHTS FOR THE PERIOD APRIL 1, 1949, TO MARCH 31, 1950.

Fiscal Years	PETROLEUM AND NATURAL GAS			COAL		SALT		QUARRYING		SAND AND GRAVEL	QUARTZ	PLACER	BITUMINOUS SANDS	TAX	MISC.	TOTAL	Fiscal Years
	Fees and Rentals	Royalties	Crown Reserve Sales	Fees and Rentals	Royalties	Fees and Rentals	Royalties	Fees and Rentals	Royalties	Fees Rentals and Royalties	Fees and Royalties	Fees and Royalties	Fees Rentals and Royalties	On Assignments and Subleases	Fees Rentals and Royalties		
1930-31	\$ 96,364.18	\$ 111,145.78	\$	\$ 71,329.17	\$ 110,140.80	\$	\$	\$ 424.12	\$	\$ 131.94	\$	\$ 10.00	\$ 26.90	\$	\$ 1,854.50	\$ 391,427.39	1930-31
1931-32	66,324.81	106,486.65	.....	138,203.32	151,524.42	.....	.....	2,155.37	.....	588.23	205.00	50.00	49.50	.....	1,442.58	467,030.13	1931-32
1932-33	45,836.64	73,436.42	.....	131,861.06	148,771.79	.....	.....	1,032.22	.....	262.18	370.00	82.50	.....	.....	468.16	402,120.97	1932-33
1933-34	93,639.81	73,881.91	.....	126,440.91	203,047.95	.....	.....	1,727.87	.....	374.90	230.00	324.50	.....	.....	587.86	500,255.71	1933-34
1934-35	118,006.62	61,548.96	.....	133,793.73	188,487.82	.....	.....	1,206.33	.....	400.89	250.00	110.00	.....	.....	724.57	504,528.97	1934-35
1935-36	126,469.42	118,167.69	.....	123,139.96	206,470.99	699.66	.....	1,201.94	209.00	775.87	2,105.00	105.88	36.60	.....	577.99	579,960.00	1935-36
1936-37	437,331.49	108,935.28	.....	121,352.61	193,810.33	646.90	62.00	1,998.08	188.00	437.58	340.00	105.66	275.00	.....	692.95	866,175.88	1936-37
1937-38	320,199.14	273,524.10	.....	119,808.71	173,386.26	511.10	10.50	1,577.94	790.16	1,110.65	233.53	55.04	1,877.07	.....	504.37	893,588.57	1937-38
1938-39	413,185.41	522,765.76	.....	111,431.25	152,341.01	32.68	995.21	1,471.94	1,133.65	779.42	98.17	198.27	5,806.50	.....	636.01	1,210,875.22	1938-39
1939-40	377,805.30	523,306.31	.....	116,187.52	176,615.53	32.56	540.22	1,335.15	1,213.75	3,071.43	83.48	205.63	7,973.70	.....	488.43	1,208,859.01	1939-40
1940-41	266,141.52	523,334.79	.....	89,637.77	215,886.92	57.56	2,120.10	1,253.95	996.62	3,823.88	142.72	386.20	3,986.85	.....	221.08	1,107,989.96	1940-41
1941-42	214,819.16	658,898.75	.....	84,830.31	239,627.78	43.50	3,711.16	1,412.99	1,523.48	2,145.30	246.72	247.98	1,806.00	.....	329.92	1,209,643.06	1941-42
1942-43	291,677.63	630,198.57	.....	84,030.37	260,313.62	27,186.60	4,247.87	1,283.75	1,926.50	7,045.00	313.83	190.00	5,655.30	.....	5,020.07	1,319,084.09	1942-43
1943-44	256,331.80	550,388.15	.....	93,360.86	259,323.95	13,441.64	3,379.66	1,516.68	3,718.90	5,829.40	196.22	140.00	3,834.40	.....	4,693.05	1,196,154.71	1943-44
1944-45	661,030.56	708,198.07	.....	118,200.77	273,230.51	8,665.82	5,543.21	1,476.98	6,558.40	1,985.45	10.00	10.00	25.73	.....	3,620.91	1,788,556.21	1944-45
1945-46	375,631.65	588,917.51	.....	154,498.36	287,659.07	8,220.82	5,791.70	1,506.71	6,021.40	1,515.65	8.52	90.00	15,768.84	.....	3,635.93	1,449,266.16	1945-46
1946-47	287,754.05	610,208.93	.....	112,123.77	317,098.87	5,455.82	6,332.00	1,501.09	4,466.65	4,293.95	66.94	22.83	6,302.94	.....	7,529.28	1,363,157.12	1946-47
1947-48	759,701.95	875,238.87	.....	121,936.17	288,215.46	6,720.92	5,979.53	1,010.27	5,545.68	4,220.70	88.00	150.00	.....	.....	10,065.17	2,078,872.62	1947-48
1948-49	2,353,063.69	1,753,573.00	8,911,803.51	177,788.03	646,539.66	7,002.07	4,886.06	1,155.34	15,916.69	6,275.70	214.77	22.97	.....	.....	16,511.22	13,894,752.76	1948-49
TOTALS	\$7,561,314.63	\$8,872,150.50	\$8,911,803.51	\$2,229,954.70	\$4,492,492.74	\$78,717.55	\$43,599.22	\$26,248.75	\$50,208.88	\$45,068.12	\$5,202.90	\$2,507.46	\$53,425.63	.....	\$59,604.06	\$32,432,298.65	TOTALS
1949-50	\$6,251,852.54	\$3,611,118.33	\$23,231,448.20	\$ 191,725.77	\$ 651,568.47	\$ 564.00	\$ 2,024.92	\$ 1,019.31	\$29,939.08	\$ 7,665.35	\$ 377.56	.....	\$15,195.28	\$185,833.42	\$28,091.31	\$34,208,423.54	1949-50



Due to low pressure many Redwater wells are produced by pump

Technical Division

Report of the Superintendent of the Technical Division,

H. B. Grove

This being the first annual report of the Technical Division, a short outline of the duties and responsibilities of the Division may be of interest.

The general draughting of all maps, plans and sketches required by the Department as well as the preparation of legal descriptions for all dispositions of Crown minerals and other miscellaneous work of a technical nature are undertaken by this Division.

Records of the standing of Crown mineral rights are maintained and information in this respect is supplied to other branches of the Department and to the public. When it is considered that approximately ninety percent of the mineral rights in the Province, exclusive of National Parks, are held by the Crown, the magnitude of the responsibilities involved in this work of the Division can be more readily realized.

In addition to the above, the departmental files are under the jurisdiction of the Filing Section of the Technical Division and involve the handling of approximately 20,000 active files and 36,000 cancelled files.

All notifications for the issue of certificate of title conveying Crown minerals are prepared and forwarded to the Land Titles Office for registration. The majority of the notifications issued are to complete exchanges of minerals and to the Federal Government, for minerals under Indian Reserves and National Parks.

In addition to disposing of mines and minerals by patent, a variety of minerals are also revested in the Crown through voluntary transfer, non-payment of Mineral Tax and exchange of minerals. The Duplicate Certificates of Titles to these minerals in the name of the Minister of Mines and Minerals are recorded, filed and the Mining Recorder advised of the revestment.

Accordingly, the remainder of this report is written in five parts as follows:

- Draughting, Legal Descriptions and General
- Records
- Filing
- Notifications
- Revested minerals.

DRAUGHTING, LEGAL DESCRIPTIONS AND GENERAL

During the first year of the operation of the Department considerable difficulty was encountered in obtaining experienced men to fill all of the six positions classified as draughtsmen. A shortage of these tradesmen exists throughout Canada due mainly to the extensive activities of the many oil and pipeline companies in Western Canada, which employ a large number of draughtsmen, and to the extensive post-war mapping program of the Government of Canada. Consequently the position of Chief Draughtsman remained vacant throughout the year although a continuous and determined effort was made to secure a man with the necessary qualifications.

Without the services of a Chief Draughtsman it was necessary to curtail somewhat the publishing of oil and geological maps. However, maps drawn on tracing cloth of Turner Valley, Leduc-Woodbend and Redwater fields showing drilling, producing and abandoned wells were brought up-to-date weekly and a supply of ozalid or photostat prints maintained for sale to the public. A map of the Edmonton District drawn to a scale of one mile to an inch covering the territory from Townships 49 to 58 inclusive and from the East boundary of Range 19 West of the 4th Meridian to the 5th Meridian showing the wells and freehold petroleum and natural gas rights was also brought up-to-date weekly and ozalid or photostat prints obtained for distribution.

Seven hundred prints of the above maps on ozalid paper and five hundred photostat copies on a reduced scale were sold to the public and supplied to other branches of the Department.

In addition to the preparation of the above mentioned maps a considerable number of sketches were drawn showing applications to have Crown reserves offered for sale, indicating thereon the disposition of the mineral rights and status of wells in the vicinity. A plan of each reservation issued, amended, cancelled and converted to leases was prepared on a uniform plot of sixteen townships, fourteen inches by fifteen inches, and photostat copies on a reduced scale prepared and forwarded to the oil companies subscribing to this weekly service. At the close of the year there were thirty-one subscribers entitled to receive copies of the plots.

The locations of all new wells were shown in the township records and the location, co-ordinates, elevation, name of the well and other pertinent information shown on cards arranged alphabetically. In addition to recording the well information, the ownership of the petroleum and natural gas in the drilling unit for each of the 863 applications for license to drill a new well received during the year was obtained from the Land Titles Office.

Due to requests from various oil companies a schedule of Crown reserves offered for sale showing the parcels number, date of sale, name of purchaser and the purchase price was compiled and photostat copies sold to the public. The schedule dates back to February, 1947, when oil was discovered at Leduc, it



MAP OF ALBERTA

Scale 0 10 20 30 40 50 Miles

SHOWING AREAS FOR WHICH
PETROLEUM AND NATURAL GAS
RESERVATIONS
HAVE BEEN ISSUED

— LEGEND —

- RESERVATIONS ISSUED PREVIOUS TO APRIL 1, 1949.
- RESERVATIONS ISSUED FROM APRIL 1, 1949 TO MARCH 31, 1950.
- PROVINCIAL PETROLEUM RESERVES.

being the intention to keep the list up-to-date by adding the results of sales held in the future.

Legal descriptions were prepared for 132 Coal Mining Leases, 3,007 Petroleum and Natural Gas Leases, 287 Petroleum and Natural Gas Reservations, 1 Quarrying Lease and 7 Notifications, as well as descriptions for a number of Recommendations to Council and Agreements making a total of over 3,400 descriptions.

Referring to the map of Alberta, included in this report, showing petroleum and natural gas reservations issued to the end of this year, it is interesting to note that approximately fifty per cent of the total area of the Province has been and is being explored for oil and gas by approved geological or peophysical means or by the drilling of wells. There are, however, concentrated areas of freehold lands lying to the South of Drumheller and to the South of Lethbridge, as well as the Indian reserves and national parks for which this Division has no information regarding the exploration for petroleum and natural gas and accordingly have not been included in the fifty per cent above.

This Division is responsible for all photostat, blueprint and mimeograph work required by the Department. The photostat prints are obtained from the Department of Lands and Forests, the blueprints and ozalid prints are obtained from the Surveys Branch of the Department of Public Works whilst the mimeographing is performed by a member of this Division. During the year 225 stencils were cut and 32,000 copies run off.

RECORDS

The volume of work of the Records section increased steadily throughout the year necessitating the addition of two members to the staff. The demand by the public for township plots showing the standing of Crown petroleum and natural gas rights increased to the extent that it was found necessary for one person to devote practically all his time to this phase of the work.

The following tables will give some indication of the amount of work accomplished especially when it is considered that there are two entries made for each disposition, once as an application and again when issued.

*DISPOSITIONS, CANCELLATIONS AND ASSIGNMENTS RECORDED IN THE TOWNSHIP REGISTERS

Coal Mining Leases	176
Petroleum and Natural Gas Leases	4,084
Petroleum and Natural Gas Reservations.....	469
Quarrying Leases	6
Notifications	7
Assignments	1,060
Bituminous Sand Prospecting Permit	1
TOTAL	5,803

*Includes issued, reinstated, divided and renewed.

DEPARTMENT OF MINES AND MINERALS

ASSIGNMENTS REGISTERED

Petroleum and Natural Gas	977
Coal	73
Quarrying	3
Miscellaneous	2
TOTAL	1,060

DOCUMENTS FILED

Mechanic's Liens	22
Miscellaneous Documents	4
TOTAL	26

FILING

The alphabetical kardex index to files was transferred from cabinets to two rotary stands which have proven much more efficient in that less space is required for the index and reference can readily be made to the cards without moving from the telephone desk.

The file record books which have been in use since 1931 are in very poor condition. Therefore, a start was made in transcribing the information to loose leaf binders.

An indication of the activity of the filing section of this Division may be obtained from the following table of files cancelled and new files opened.

FILES CANCELLED AND NEW FILES OPENED

From April 1, 1949, to March 31, 1950

	Opened	Cancelled
Company	118	.....
Deposits	142	.....
Oil Purchase	6	.....
Petroleum and Natural Gas Royalty	800	.....
Unearned Increment Tax	3	.....
Alienated	25	.....
General Files	167	.....
School Lands .....	.....	12
Structure Tests	2	.....
Petroleum and Natural Gas Leases, Reservations, etc.	4,673	1,358
Farm Gas Wells.....	2	.....
Water Wells	3	.....
TOTAL	5,941	1,370

NOTIFICATIONS

Before reporting the notifications for the present year it may be of interest to review the statistics of patents issued for minerals by the Department of Lands and Mines from the transfer of the natural resources to the Province on October 1, 1930, to March 31, 1949, upon which date the Department of Lands and Mines passed out of existence. All notifications shown in the following schedule were issued during the fiscal year ending March 31, 1948, with the exception of the notification granted for petroleum and natural gas which was issued in the year ending March 31, 1949.

NOTIFICATIONS ISSUED FOR MINERALS BY THE DEPARTMENT

From October 1, 1930, to March 31, 1950

	Notifications	Acres
All Mines and Minerals other than Gold and Silver		
Addition to Janvier Indian Reserve.....	1	514.00
Chippewyan Indian Reserve	1	52,398.20
Exchange of Minerals	1	
All Mines and Minerals both Precious and Base		*
Elk Island, Jasper and Waterton National Parks.....	1	2,866,688.00
Banff National Park	1	1,664,400.00
TOTAL	5	4,584,000.20
Petroleum and Natural Gas		
Exchange of Petroleum and Natural Gas.....	1	*

*Fractional areas that cannot be computed from available survey data.

During the year seven notifications for issue of certificate of title to minerals were prepared and forwarded to the Land Titles Office for registration.

The Minister of Mines and Minerals was authorized by Order-in-Council No. 1303/49, dated October 31, 1949, to vest title in the Dominion of Canada to all mines and minerals other than gold and silver under the Bushe River Indian Reserve No. 207 and the Moose Prairie Indian Reserve No. 208. Accordingly, two notifications were issued in the name of the Department of Mines and Resources, Ottawa, containing together an area of 12,912.20 acres. The balance of the notifications issued consisted mainly of exchanges of minerals in order to bring about a land ownership pattern of full legal subdivisions to facilitate the orderly development of the petroleum and natural gas held by the Crown and the freehold owners.

REVESTED MINERALS

All duplicate certificates of title for minerals only that were previously on file in the Department of Lands and Mines have been indexed, filed and recorded in this Division and the duplicates containing both surface and mineral rights forwarded to the Land Titles Office with a request that the minerals be cancelled from the titles and new titles issued for the minerals in the name of the Minister of Mines and Minerals. It is expected that the preparation of the new titles will be completed in the coming year.

During the year a total of forty-six titles to minerals were registered in the name of the Minister of Mines and Minerals, the duplicate certificates of title being recorded and filed in this Division. Twenty-eight of the forty-six titles were voluntary transfers, the remaining eighteen titles were received through exchanges of minerals and from the Department of Municipal Affairs.

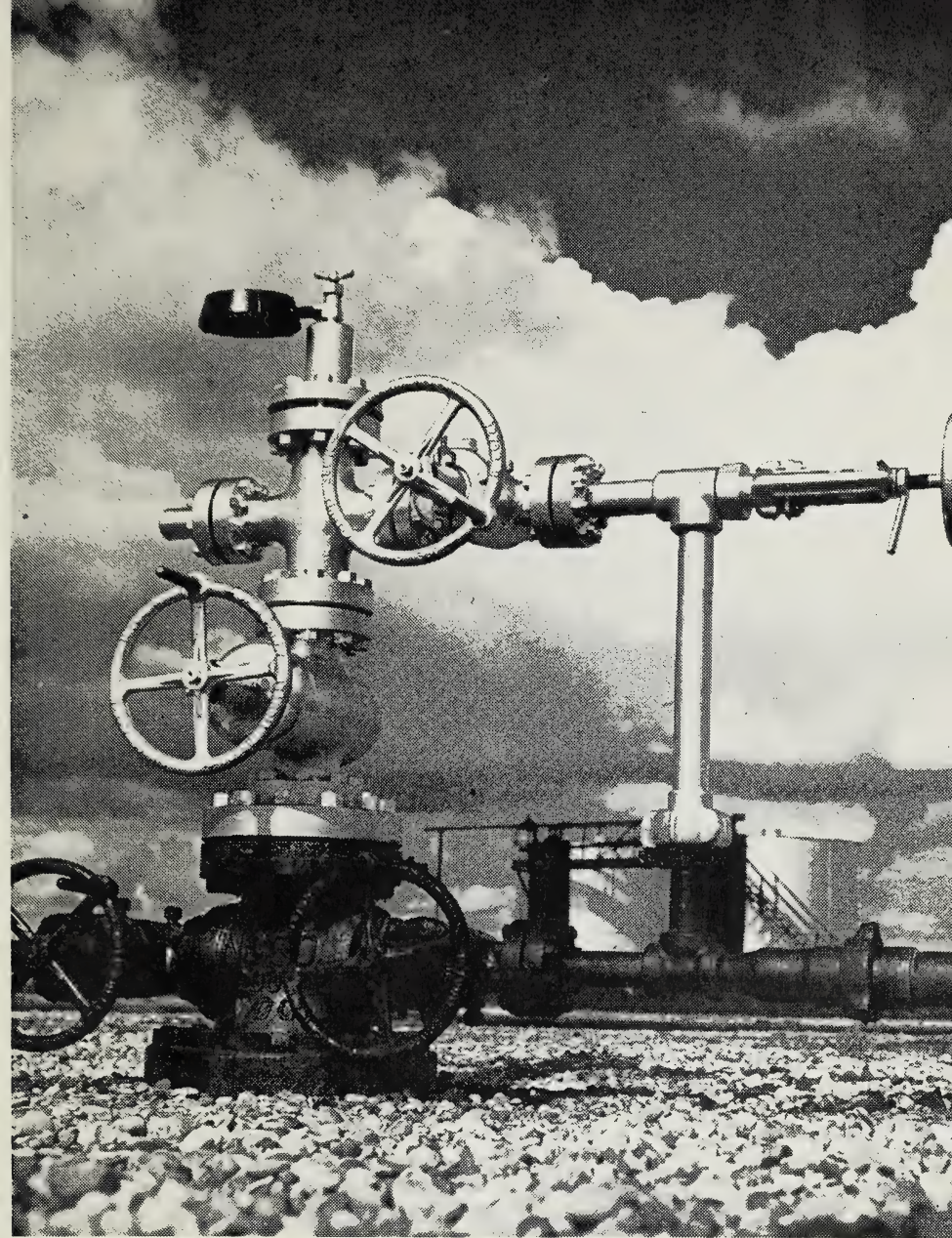
In the majority of the titles specific minerals are designated, therefore a statement of the total area contained in the above titles would be meaningless. Accordingly, in the following schedule the total areas have been shown for petroleum, natural

gas, coal, and other minerals which, it is presumed, will be of some practical assistance in portraying the ownership of mineral in the Province.

SCHEDULE OF REVESTED MINERALS

	Petroleum Acres	Natural Gas Acres	Coal Acres	Other Minerals Acres
Voluntary Transfer				
As on March 31, 1949.	23,368.31	66,639.45	708,430.35	73,610.85
From April 1, 1949, to March 31, 1950.....	Nil	6,085.20	352.00	6,405.20
TOTAL	<u>23,368.31</u>	<u>72,724.65</u>	<u>708,782.35</u>	<u>80,016.05</u>
Non-Payment of Mineral Tax as on March 31, 1949	55,562.41	193,458.11	21,597.02	194,724.11
From April 1, 1949, to March 31, 1950	Nil	Nil	Nil	Nil
TOTAL	<u>55,562.41</u>	<u>193,458.11</u>	<u>21,597.02</u>	<u>194,724.11</u>
Revested other than Volun- tary Transfer and Non- Payment of Mineral Tax as on March 31, 1949	199,869.98	212,118.80	125,034.89	213,838.77
From April 1, 1949, to March 31, 1950.....	108.95	735.41	1,687.25	653.91
TOTAL	<u>199,978.93</u>	<u>212,854.21</u>	<u>126,722.14</u>	<u>214,492.68</u>
TOTAL as on March 31, 1950	<u>278,909.65</u>	<u>479,036.97</u>	<u>857,101.51</u>	<u>489,232.84</u>

Note: The above schedule does not include titles to minerals in subdivisions.
During the year Duplicate Certificates of Title to minerals in 58 lots
were recorded.



A control head is all that remains to mark the location of a mile-deep oil producer at Leduc

Mineral Taxation Division

Report of the Chief Assessor of the Mineral Taxation Division
E. F. Gilker

In anticipating the creation of the new Department of Mines and Minerals it was decided that the taxation of minerals would come under the administration of the new Department. This is the first annual report of the Mineral Taxation Division under the new administration and a brief summary from the year 1941 would give a general outline of legislation and taxation during the rapid development of our natural resources.

The many problems in the taxation of minerals have been dealt with by municipalities and local improvement districts under the administration of the Department of Municipal Affairs and over a period of years legislation dealing with this type of taxation has met with many obstacles, particularly in tax recovery proceedings and the cancellation of certificates of title and the issue of new titles in the name of taxing authorities.

Previous to the 1941 Mineral Taxation Act the Government enacted legislation and under The Mineral Taxation Act 1938 the Department of Municipal Affairs had the right to assess and tax minerals in effect from the years 1938 to the year 1941.

The Government, however, represented by the Department of Lands and Mines, decided that a certain amount of revenue could be derived from the taxation of minerals on developed and undeveloped natural resources and in the year 1941 legislation was brought in and The Mineral Taxation Act of 1938 was repealed. Amendments were made to The Municipal Districts Act, Improvements Districts Act and The Assessment Act, to give the power to the Department of Lands and Mines to tax all freehold minerals, with the exception of coal.

In the administration of The Mineral Taxation Act 1941, while the Act provided for the tax on all owners of freehold minerals, the onus was on the owner to deliver to the Minister a statement of parcels in respect of which he was taxable under the provisions of the Act and to pay all taxes due and owing on or before the first day of September in each year.

The only records the Department had at that time were the fiats showing the minerals patented and as many changes of ownership were recorded in the Land Titles Offices the names and addresses of the original patentees were of little or no value. It was decided however, to at least make a search in the Land Titles Office records and obtain names and addresses of the present registered owners of mineral grants and mineral sales and to advise such owners of The Mineral Taxation Act and their responsibility for payment of taxes. Provision was made in the Act that in the event of non-payment of taxes that a registered

notice would be served to the owner stating that unless all taxes due and owing were paid within one year from the date of mailing of said notice, that the certificate of title to the minerals would be cancelled and title issued in the name of the Crown.

The Department decided to make an attempt to have the Land Titles Office records searched for all owners of minerals and the mailing of registered notices to owners of minerals was withheld until the records of the Department were complete. The second world war also had some effect on withholding the serving of notices to registered owners as it was deemed inadvisable to serve notices knowing in many instances that the owners were overseas.

The year 1945 was an important year as a new Act was brought in and also the taxation of coal came under the administration of the Department. Up to the year 1945 municipalities and improvement districts were still taxing coal and as the Mineral Taxation Act 1945 deprived municipalities and improvement districts of the assessment and taxation, they were reimbursed and a yearly grant was given to equal the amount of tax collected in the year 1945. In the collection of taxes and the issue of receipts it was deemed advisable to have an employee located in the Land Titles Office at Calgary and Edmonton and in addition to the collection of taxes, also to furnish the Department with the names and addresses of registered owners of the minerals.

In the year 1947 with the startling news of a major oil field in the Edmonton district, the Department was flooded with inquiries as to the ownership of minerals and the taxes. In order to overcome this situation, a small staff was employed and put on special work to make a thorough search of the Land Titles Office records and in the latter part of the year 1949, this work was completed.

In dealing with assessment and taxation from the year 1941, it may be as well to compare the revenue for the year 1941 with the fiscal year ending March 31st, 1950, and comparing these figures show that the tax collected for the year 1941 was \$75,120.93 and for the year ending March 31st, 1950, \$750,721.26. The reason for the increase in revenue is the fact that in the year 1941 only the Turner Valley area was subject to a producing area tax.

In the year 1945, Medicine Hat-Redcliff, Viking-Kinsella, Lloydminster and Vermilion areas were declared producing areas and subject to assessment and taxation. In the year 1948 the Leduc area was added to the producing areas and in the year 1949, Redwater was also added. Due to the tremendous development by oil companies the work of the Division has steadily increased and a comparison of the total assessed value for the year 1941 with the assessed value for the fiscal year ending March 31st, 1950, indicates a considerable increase.

The following is a comparative statement of the revenue of taxes derived from the year 1941.

Year	Producing Area	Non-Producing Area	Total
1941	\$ 24,532.61	\$ 50,588.32	\$ 75,120.93
1942	27,463.60	66,901.08	94,364.68
1943	40,308.01	61,767.14	102,075.15
1944	31,255.85	61,527.44	92,783.29
1945 (arrears 1944)	71.80	160,054.33	160,126.13
1946	125,742.91	231,062.93	356,805.84
1947	179,694.16	294,039.82	473,733.98
1948	290,170.08	275,773.89	565,943.97
1949	452,838.16	297,883.10	750,721.26
			\$2,671,675.23

Mineral Tax certificate fees amounting to \$286.56 were received during the fiscal year and not included in the above table.

During the fiscal year Voluntary Transfers submitted to the Department for the consent of the Minister involved twenty-nine transfers and the following is a breakdown of the minerals vested in the name of the Crown.

Petroleum	Natural Gas	Coal	Other Minerals
	6085.20	352	6405.20

In addition to the Voluntary Transfers exchanges of mineral rights were approved by Order-in-council involving ten certificates of title and exchanges completed on the following minerals:

Petroleum	Natural Gas	Coal	Other Minerals
108.95	735.41	1687.25	653.91

From the inception of the taxation of minerals by the Department of Lands and Mines it was estimated in the year 1941 that as the natural resources of the Province were developed that the revenue derived from the taxation of minerals would exceed one million dollars. It is gratifying to know that there are indications that this form of revenue is rapidly increasing and that possibly within the next two years this amount may be realized.



Leduc tank farms are models for neatness of layout. Farms may each handle oil from a number of wells in the area.

Accounting Division

Report of the Administrative Accountant

W. E. Shillabeer

A surplus of \$34,614,226.94 on Income Account was shown for the fiscal year ending March 31st, 1950.

Net Revenue amounted to \$34,988.154.06.

Gross Receipts from all sources amounted to \$44,645,542.10.

Expenditure on Income Account for the year amounted to \$373,927.12. Particulars of expenditure may be found in Statement "C".

As at March 31st, 1950, there were 11,717 Accounts Receivable as compared with 8,983 as at March 31st, 1949. The number of active accounts as at March 31st, 1950, is made up as follows:

	No. of Accounts
Petroleum and Natural Gas Leases, Rental	7,380
Petroleum and Natural Gas Leases, Royalty	872
Petroleum and Natural Gas Reservations	527
Coal Leases, Rental	701
Coal Leases, Royalty	273
Mineral Taxation (Producing Area)	1,779
Unearned Increment Tax	89
Mining Miscellaneous	97
	11,717

There were 2,090 accounts cancelled, closed or paid in full and 4,824 new accounts opened.

INDEX TO STATEMENTS

- A. Statement of Receipts from all Sources.
- B. Statement of Receipts—Income Account.
- C. Statement of Expenditure by Appropriations and Character.
- D. Statement of Net Receipts by Divisions.
- E. Statement of Receipts—School Lands.
- F. Statement of Receipts and Expenditures.
- G. Statement of Mining Lands Revenue by Fiscal Years received by the Province following October 1, 1930.

Statement A

STATEMENT OF RECEIPTS FROM ALL SOURCES

From April 1, 1949 to March 31, 1950

	Gross Receipts	Refunds	Net Receipts
Income Account	\$35,003,899.81	\$ 15,745.75	\$34,988,154.06
Reimbursement of Previous Year's Expenditure	22.19	.....	22.49
Unapplied Receipts Carried Forward (Subject to Refund).....			
Suspense	9,641,619.80	8,361,488.73	1,280,131.07
	<u>\$44,645,542.10</u>	<u>\$8,377,234.48</u>	<u>\$36,268,307.62</u>

Statement B

STATEMENT OF RECEIPTS INCOME ACCOUNT

From April 1, 1949 to March 31, 1950

INCOME ACCOUNT:

	Gross Receipts	Refunds	Net Revenue
MINING LANDS:			
Coal Rentals, Fees, etc.....	\$ 185,412.49	\$ 611.60	\$ 186,024.09
Coal Royalties	600,493.96	.....	600,493.96
Coal Mines Act Sundry Revenue.....	6,183.56	45.00	6,228.56
Petroleum and Natural Gas Fees, Rentals, etc.	5,741,111.95	12,030.47	5,753,142.42
Petroleum and Natural Gas Royalties..	3,368,918.86	18.17	3,368,937.03
Purchase Price for Leases	23,180,998.77	.....	23,180,998.77
Mining Miscellaneous	79,396.96	17.03	79,413.99
SCHOOL LANDS:			
Coal Rentals, Fees, etc.....	6,313.28	.....	6,313.28
Coal Royalties	51,074.51	.....	51,074.51
Petroleum and Natural Gas Fees, Rentals, etc.	514,065.59	1,960.00	516,025.59
Petroleum and Natural Gas Royalties..	242,199.47	.....	242,199.47
Purchase Price for Leases.....	50,449.43	.....	50,449.43
Mining Miscellaneous	2,154.85	.....	2,154.85
MINERAL TAXATION ACT:	751,007.76	860.98	751,868.74
UNEARNED INCREMENT TAX:	185,833.42	122.50	185,955.92
MISCELLANEOUS:			
Casual	21,915.60	80.00	21,995.60
Reimbursement of Salaries and Expenses	623.66	.....	623.66
TOTAL INCOME ACCOUNT (Carried to Statement A).....	<u>\$34,988,154.06</u>	<u>\$15,745.75</u>	<u>\$35,003,899.81</u>

EXPENDITURE CLASSIFIED BY APPROPRIATIONS AND CHARACTER
FOR THE YEAR ENDED MARCH 31, 1950
INCOME ACCOUNT

STATEMENT C

SERVICE	2001 Minister's Office	2002 Deputy Minister's Office	2003 Accounts Division	2004 Advisory Board	2005 Geological Division	2006 Mines Division	2007 Mineral Rights Division	2008 Mineral Taxation	2009 Petroleum and Natural Gas Con. Board	2010 Technical Division	2011 Postage	Special Warrant No. 20	Totals
Advertising.....	\$		\$	\$	\$	\$	\$11,675.53	43.11	\$	\$	\$	\$	\$ 11,718.64
Automobiles.....	1,573.01	71.52				2,406.06	277.45	970.48					5,298.52
Books and Binding.....		338.30	87.60			66.76	48.01	55.90		63.59			660.23
Equipment.....	1.26	624.58	1,132.35			327.69	1,597.71	281.41		1,088.10			5,053.10
Examinations.....						1,213.47							1,213.47
Fees and Commissions.....						.16						901.49	901.65
Freight, Express and Cartage.....		20.35	2.52			673.18	307.48		5.99	6.39			1,015.91
Grants.....													30,459.75
Legal Fees and Expenses.....								30,459.75				3,440.00	3,973.85
Miscellaneous Supplies and Expenses.....		22.97	12.95			227.24	28.02	533.85		740.83		50.75	1,160.44
Newspapers and Periodicals.....	6.00	42.01	2.00			10.37	18.32	6.00		1.66			86.86
Postage.....	60.00					130.28					3,511.05		3,731.09
Printing and Stationery.....	156.00	3,030.38	1,607.02			4,346.37	5,804.47	2,664.85		5,517.61		29.76	23,127.20
Rates, Rentals and Insurance.....						52.40							52.40
Repairs and Replacements.....	19.50	102.46	112.74			334.46	259.11	120.27		55.75			1,004.29
Salaries.....	4,712.75	14,827.41	28,554.24		2,385.62	54,774.23	43,133.30	24,793.25		34,342.53			207,523.33
Special Services.....						9.55			65,244.36			796.00	66,049.91
Telegrams and Telephones.....	409.77	558.87	13.30			697.00	895.51	8.95		25.20			2,608.60
Travelling Expenses.....		403.10	127.00	94.95		6,737.43	298.05	473.70		154.15			8,288.38
TOTAL: Income Account.....	6,938.29	20,042.45	\$31,651.72	\$94.95	\$2,385.62	\$72,006.65	\$64,342.96	\$60,495.26	\$65,244.36	\$41,995.81	\$3,511.05	\$5,218.00	\$373,927.12

CAPITAL ACCOUNT

SERVICE	2080 Abandonment of Mining Properties	TOTAL
Contract Labour.....	\$3,356.65	\$3,356.65
Wages.....	630.00	630.00
TOTAL: Capital Account.....	\$3,986.65	\$3,986.65

Statement D

STATEMENT OF NET RECEIPTS BY DIVISIONS
For Fiscal Year Ending March 31, 1950

INCOME ACCOUNT:

Mineral Rights Division	\$34,022,590.12
Mineral Tax Division	751,007.76
Mines Division	6,183.50
Unearned Increment Tax.....	185,833.42
Miscellaneous (Administration Sundry Revenue, Reimbursements)	22,539.26
TRANSFERRED TO OTHER DEPARTMENTS.....	22.49
UNAPPLIED RECEIPTS CARRIED FORWARD:	
Suspense	1,280,131.07
	<u>\$36,268,307.62</u>

Statement E

STATEMENT OF RECEIPTS—SCHOOL LANDS
From April 1, 1949 to March 31, 1950

INCOME ACCOUNT:

	Receipts	Refunds	Net Revenue
Coal Rentals, Fees, etc.	\$ 6,313.28	\$	\$ 6,313.28
Coal Royalties	51,074.51	.....	51,074.51
Petroleum and Natural Gas Fees, Rentals, etc.	516,025.59	1,960.00	514,065.59
Petroleum and Natural Gas Royalties..	242,199.47	.....	242,199.47
Purchase Price for Leases.....	50,449.43	.....	50,449.43
Mining Miscellaneous	2,154.85	.....	2,154.85
	<u>\$868,217.13</u>	<u>\$1,960.00</u>	<u>\$866,257.13</u>

Statement F

STATEMENT OF RECEIPTS AND EXPENDITURE
For Fiscal Year Ending March 31, 1950

Gross Receipts	Refunds	Net Receipts	Net Revenue on Income Account	Total Expenditures from Appro- priations	Surplus on Income Acct.
\$44,645,542.10	\$8,377,234.48	\$36,268,307.62	\$34,988,154.06	\$373,927.12	\$34,614,226.94

STATEMENT OF MINING LANDS REVENUE BY FISCAL YEARS RECEIVED BY THE PROVINCE FOLLOWING OCTOBER 1, 1930

Fiscal Years	COAL				PETROLEUM AND NATURAL GAS						SALT				DREDGING	QUARRYING		SAND, STONE & GRAVEL		QUARTZ		PLACER AND DIGGINGS
	PROVINCIAL LANDS		SCHOOL LANDS		PROVINCIAL LANDS			SCHOOL LANDS			PROVINCIAL LANDS		SCHOOL LANDS		PROVIN- CIAL LANDS	PROVINCIAL LANDS		PROVIN- CIAL LANDS	SCHOOL LANDS	PROVIN- CIAL LANDS	SCHOOL LANDS	PROVIN- CIAL LANDS
	Fees and Rentals	Royalties	Fees and Rentals	Royalties	Fees and Rentals	Royalties	Crown Reserve Sales	Fees and Rentals	Royalties	Crown Reserve Sales	Fees and Rentals	Royalties	Fees and Rentals	Royalties	Fees, Rentals and Royalties	Fees and Rentals	Royalties	Fees and Royalties	Fees and Royalties	Fees and Royalties	Fees and Royalties	Fees and Royalties
1930-31	\$ 66,225.59	\$ 105,126.51	\$ 5,103.55	\$ 5,014.29	\$ 87,373.46	\$ 110,882.84	.....	\$ 8,990.72	262.94	.....	.....	.....	.....	.....	\$ 55.00	\$ 424.12	.....	\$ 131.94	.....	.....	.....	\$ 10.00
1931-32	182,415.11	145,170.33	5,788.21	6,354.09	57,868.87	106,103.05	.....	8,455.94	383.60	.....	.....	.....	.....	.....	214.38	2,155.37	.....	588.23	.....	\$ 205.00	.....	50.00
1932-33	125,750.49	143,800.01	6,110.57	4,971.78	42,117.70	73,182.96	.....	3,718.94	253.46	.....	.....	.....	.....	.....	243.60	1,032.22	.....	262.18	.....	370.00	.....	82.50
1933-34	120,977.90	193,527.82	5,468.01	9,520.13	81,540.10	73,548.27	.....	12,099.71	283.64	.....	.....	.....	.....	.....	214.38	1,727.87	.....	374.90	.....	230.00	.....	294.50
1934-35	128,482.81	176,122.43	5,310.92	12,365.39	104,375.89	61,265.88	.....	13,630.73	283.08	.....	.....	.....	.....	.....	541.00	1,206.38	.....	365.97	.....	250.00	.....	100.00
1935-36	117,741.55	186,691.23	5,398.41	19,779.76	115,593.55	117,468.36	.....	10,875.87	699.33	.....	\$ 699.66	.....	.....	.....	535.00	1,201.94	\$ 209.00	734.07	\$ 34.92	2,105.00	.....	95.82
1936-37	116,137.98	175,214.33	5,214.63	18,596.00	348,291.29	108,321.19	.....	89,040.20	614.09	.....	646.90	\$ 62.00	.....	.....	399.80	1,998.08	188.00	344.53	93.00	340.00	.....	105.66
1937-38	114,984.69	158,227.11	4,824.02	15,159.15	284,844.04	249,266.53	.....	35,355.10	24,257.57	.....	511.10	10.50	.....	.....	200.00	1,577.94	790.16	942.90	167.75	233.53	.....	55.04
1938-39	106,765.27	143,070.78	4,665.98	9,270.23	372,449.99	394,453.43	.....	40,785.42	128,312.33	.....	32.68	995.21	.....	.....	485.00	1,471.94	1,133.65	669.62	109.80	83.43	.....	198.27
1939-40	111,287.05	168,802.75	4,900.47	7,812.78	340,687.68	408,304.20	.....	37,117.62	115,002.11	.....	32.56	540.22	.....	.....	.....	1,335.15	1,213.75	3,003.43	68.00	83.43	.....	205.63
1940-41	85,445.98	200,045.68	4,191.79	15,841.24	229,844.78	411,963.65	.....	36,296.74	111,371.14	.....	57.56	2,120.10	.....	.....	135.00	1,253.95	99*.62	3,694.63	129.25	132.72	\$10.00	366.20
1941-42	80,560.44	216,777.95	4,269.87	22,849.83	189,436.95	570,604.94	.....	25,382.21	88,293.81	.....	43.50	3,711.16	.....	.....	.....	1,412.99	1,523.48	1,975.10	170.20	246.72	.....	187.98
1942-43	79,742.23	235,613.19	4,288.14	24,700.43	267,612.47	575,833.12	.....	24,065.16	54,360.45	.....	27,186.60	4,247.87	.....	.....	.....	1,283.73	1,925.50	6,597.40	447.60	313.83	.....	190.00
1943-44	88,289.67	239,590.96	5,071.19	19,732.99	239,534.05	503,525.82	.....	16,747.75	46,862.33	.....	13,441.64	3,379.66	.....	.....	.....	1,516.68	3,718.90	5,471.40	358.00	196.22	.....	140.00
1944-45	113,870.87	251,186.50	4,329.90	22,094.01	598,852.20	669,230.07	.....	62,678.16	38,968.00	.....	7,365.82	5,543.21	\$1,300.00	.....	.....	1,476.98	6,558.40	1,828.45	162.00	10.00	.....	10.00
1945-46	150,476.68	260,144.66	4,021.68	27,514.41	352,651.07	550,340.47	.....	22,980.53	38,577.04	.....	8,220.82	5,791.70	.....	.....	.....	1,506.71	6,021.40	1,490.65	25.00	8.52	.....	70.00
1946-47	108,017.04	286,486.89	4,106.73	30,611.98	272,342.03	536,230.33	.....	15,412.02	73,978.60	.....	6,745.82	6,332.00	Dr. 1,290.00	.....	2,805.00	1,501.09	4,466.65	4,067.60	226.35	66.94	.....	12.83
1947-48	117,786.17	261,554.86	4,150.00	26,660.60	706,700.80	765,182.10	.....	53,001.15	110,056.77	.....	6,720.82	5,979.53	.....	.....	510.00	1,010.27	5,545.68	4,000.80	219.90	88.00	.....	90.00
1948-49	174,053.56	600,424.43	3,784.52	46,115.23	2,148,510.15	1,619,276.43	\$8,720,507.01	204,553.54	184,296.57	\$191,296.50	7,002.07	4,886.06	.....	.....	.....	1,155.34	15,916.69	6,267.70	8.00	214.77	.....	22.97
1949-50	185,412.49	600,493.96	6,313.28	51,074.51	5,741,111.95	3,368,918.86	23,180,998.77	514,065.59	242,199.47	50,449.43	564.00	2,024.92	.....	.....	.....	1,019.31	29,939.08	7,665.35	.....	377.56	.....	.....
TOTALS	\$2,324,423.57	\$4,748,022.38	\$97,256.90	\$396,038.88	\$12,581,289.02	\$11,273,902.50	\$31,901,505.78	\$1,235,208.15	\$1,209,366.33	\$241,746.93	\$79,271.55	\$45,624.14	\$10.00	.....	6,338.16	\$27,268.06	\$80,147.96	\$50,471.90	\$2,261.57	\$5,570.46	\$10.00	\$2,287.46

G OCTOBER 1, 1930

Statement G

QUARTZ		PLACER AND BAR-DIGGINGS		BITUMINOUS SANDS		MISCELLANEOUS					
PROVIN- CIAL LANDS	SCHOOL LANDS	PROVIN- CIAL LANDS	SCHOOL LANDS	PROVIN- CIAL LANDS	SCHOOL LANDS	PROVIN- CIAL LANDS	SCHOOL LANDS	PROVINCIAL LANDS	SCHOOL LANDS		Fiscal Years
Fees and Royalties	Fees and Royalties	Fees and Royalties	Fees and Royalties	Fees Rentals and Royalties	Fees Rentals and Royalties	Fees Rentals and Royalties	Fees Rentals and Royalties	Total	Total	Total	
\$ 205.00		\$ 10.00		\$ 26.90		\$ 1,799.50		\$ 372,055.86	\$ 19,371.53	\$ 391,427.39	1930-31
370.00		50.00		49.80		1,228.20		446,048.34	20,981.84	467,030.18	1931-32
230.00		82.50				224.56		387,066.22	15,054.75	402,120.97	1932-33
250.00		294.50	\$ 30.00			373.48		472,809.22	27,446.49	500,255.71	1933-34
2,105.00		100.00	10.00			183.57		472,893.93	81,635.04	504,528.97	1934-35
340.00		95.88	10.00	36.60		42.99		543,154.83	36,805.17	579,960.00	1935-36
233.53		105.66		275.00		279.15	\$14.00	752,603.96	113,571.92	866,175.88	1936-37
98.17		55.04		1,877.07		504.37		813,824.98	79,763.59	893,588.57	1937-38
83.48		198.27		5,804.70	\$ 1.80	151.01		1,027,779.72	183,095.66	1,210,875.28	1938-39
132.72	\$10.00	205.63		7,973.70		488.43		1,043,958.03	164,900.98	1,208,859.01	1939-40
246.72		366.20	20.00	3,986.85		86.08		940,129.80	167,860.16	1,107,989.96	1940-41
313.83		187.98	60.00	1,806.00		329.93		1,068,617.14	141,025.92	1,209,643.06	1941-42
196.22		190.00		5,655.30		5,020.07		1,211,222.31	107,861.78	1,319,084.09	1942-43
10.00		140.00		3,834.40		4,693.05		1,107,382.45	88,772.26	1,196,154.71	1943-44
8.52		10.00			25.73	3,620.91		1,658,998.41	129,557.80	1,788,556.21	1944-45
66.94		70.00	20.00	14,545.37	1,223.47	3,635.93		1,354,903.98	94,362.18	1,449,266.16	1945-46
88.00		12.83	10.00	6,302.94		4,724.28		1,240,101.44	123,055.68	1,363,157.12	1946-47
214.77		90.00	60.00			9,552.67	2.50	1,884,721.70	194,150.92	2,078,872.62	1947-48
377.56		22.97				16,511.22		13,314,748.40	580,004.36	13,894,752.76	1948-49
				13,350.28	1,845.00	24,766.31		33,156,642.84	865,947.28	34,022,590.12	1949-50
\$5,570.46	\$10.00	\$2,287.46	\$220.00	\$65,524.91	\$3,096.00	\$78,015.71	\$16.50	\$63,269,668.56	\$3,185,225.21	\$66,454,888.77	TOTALS

